



UNITED STATES DEPARTMENT OF AGRICULTURE.

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ANNUAL LETTER OF INFORMATION.

Pests Collected from Imported Plants and Plant Products from October 1, 1919, to December 31, 1920.

NO. 34.

DECEMBER 31, 1920

GENERAL NOTES.

As indicated in Quarterly Letter of Information No. 33, published October, 1919, the Quarterly Letter is to be discontinued, and, in lieu thereof, an annual list of the pests intercepted will be published for the information of State and Federal inspectors and others concerned. This Annual Letter, therefore, is a continuation of the Quarterly Letter of Information, the last number of which was issued October, 1919.

The insects and plant diseases listed in this letter were for the most part intercepted from October 1, 1919, to December 31, 1920, inclusive, although a few insects and plant diseases which had not been identified at the time Quarterly Letter No. 33 was issued are included.

During the period under review particular attention has been given to the inspection of plant material passing through the inspection house at Washington under special permit. It will be noted from this list that a number of foreign diseases and insects new to the United States were intercepted, and in a number of cases it was necessary to condemn shipments on account of the presence of these dangerous pests.

NOTES ON PATHOLOGICAL INTERCEPTIONS.

A sclerotial disease attacking *Iris tingitana* and other iris species of the Spanish iris group was found in several shipments from France and the island of Guernsey. Considerable quantities of bulbs were condemned because of the presence of this disease. The fungus has been tentatively referred to as *Sclerotium semen* Tode, of rare or doubtful occurrence in the United States.

Azaleas and rhododendrons from France, Belgium, and Holland have been uniformly infected with *Exobasidium vaccinii* which causes leaf and flower galls. Very little effort, apparently, is made to remove diseased parts before the plants are shipped.

Botrytis cinerea and *Pestalozzia guepini* have been very commonly present on special permit shipments from Great Britain, France, and Holland. Crown gall (*Bacterium tumefaciens*) has been prevalent on roses and other nursery stock as in previous years.

The mosaic or mottling disease developed in sugar-cane plants grown in the quarantine greenhouse from seed imported from Argentina (Tucuman) for experimental purposes. Among other sugar-cane diseases intercepted during the year are *Thielaviopsis paradoxa* (pineapple disease or black rot of cuttings) on seed cane from Tahiti, British Guiana, and Cuba; *Melanconium sacchari* (rind disease) from Cuba.

Citrus canker (*Pseudomonas citri*) has been taken on grapefruit and oranges from China and India on several occasions at the port of Seattle. Other citrus diseases intercepted have been Anthracnose (*Colletotrichum gloeosporioides*) from Trinidad, Philippine Islands, India, and Mexico; Melanose (*Phomopsis citri*) on grapefruit from China.

A new potato disease and one which heretofore has been known only from England and Scotland was intercepted a number of times on tubers from these countries. The disease is known as skin spot, and is said to be due to the fungus *Oospora pustulans*. Since these

interceptions the disease has been found in Washington State on potatoes imported from British Columbia. The disease lowers the market value of the tubers.

A mosaic disease of bamboo (*Phyllostachys* sp.) developed in the quarantine greenhouse on plants imported by the Office of Foreign Seed and Plant Introduction for experimental work. This disease is very similar to, if not identical with, the mosaic or mottling disease of sugar cane.

Similarly a plant of *Coix lachryma-jobi* grown in the quarantine greenhouse from seed sent from the Philippine Islands developed a systemic infection of smut (*Ustilago coicis* Bref). This smut has been known previously only from British India. Strangely enough, the disease has not been found as yet in the Philippines, although special search has been made for it.

Among other interceptions of diseases new to or not widely spread in the United States may be mentioned the following: *Ustilago isilematis* on *Iseilema anthophoroides* from India; *Puccinia hibisciata* on cotton from Mexico; *Diplodia cacaoicola* (brown rot) on cacao (*Theobroma*) from Brazil; *Uromyces aloes* on *Aloe mesembryanthemoides* from the Union of South Africa; *Puccinia polysora* on *Tripsacum latifolium* from Cuba; and *Tylenchus dipsaci* in hyacinth bulbs from France.

It is also of interest to note the presence of bunt (*Tilletia* sp.) in seed wheat from Persia and covered smut (*Ustilago hordei*) in barley from the same source.

NOTES ON ENTOMOLOGICAL INTERCEPTIONS.

During the period covered, 307 species of insects were collected and identified, and, in addition, 558 interceptions were made, of which it was possible to allocate the insects to the family or genus only, due in many cases to the fact that the pests were represented by immature stages.

INSECTS IN SOIL.

Notwithstanding the fact that Regulation 3 of Quarantine 37, effective June 1, 1919, provides that foreign nursery stock and other plants must be free from soil, 13 shipments fouled with earth arrived at the inspection house, and upon examination were found to be infested with the following injurious insects:

Wireworms belonging to the genera *Agriotes* and *Limonius* were intercepted in shipments from Belgium, Ireland, and Holland.

Soil around herbaceous plants from Holland was infested with curculionid larvæ on two occasions, and larvæ of *Otiorhynchus sulcatus* were also intercepted in soil and packing from the same country. What appears to be an injurious Noctuid was taken in soil from Holland.

A species of injurious white ant arrived in soil from Brazil; namely, *Leucotermes tenuis*. This insect is considered the most destructive termite in the world, and is reported from San Domingo, the Bahama Islands, and Brazil. This termite has been introduced into the island of St. Helena, and was so destructive at Jamestown, the capital, that it was necessary to erect new buildings. Earth around roots of plants from Brazil was also infested with ants, *Ponera* sp., and larvæ of a Scarabæid.

The European earwig, *Forficula auricularia*, which in recent years has become established at Seattle, Wash., and Newport, R. I., accompanied evergreen shrubs from Holland.

MISCELLANEOUS INSECTS.

Various tubers arriving at ports of entry and the inspection house in Washington have been found to be infested with injurious insects which are not established in the United States, the most important being sweet potatoes infested with the West Indian sweet potato-weevil, *Euscepes batatae* from Cuba, the British West Indies, and Porto Rico, and *E. porcellus* from Venezuela and the Bahama Islands. Yams from Jamaica were infested with *Palaeopus costicollis*,

and Irish potatoes from Denmark contained larvæ of a wireworm, *Agriotes lineatus*, which is considered very injurious to cereal crops in Europe.

A scale insect, *Pseudaonidia duplex*, which has recently become established in New Orleans and is causing considerable injury to the plants grown in that city, was collected on two occasions on citrus from Japan. *Pyrus communis* arriving from the same country was infested with *Lepidosaphes conchiformis*, and this insect was also collected on *Ficus* arriving from England.

The pink bollworm was intercepted on several occasions in cotton seed from Mexico, Egypt, and China. This insect also arrived from Holland in seed adhering to old bagging which had been previously used on cotton.

The sugar cane borer, *Metamasius sericeus*, and its color variety, *carbonarius*, were found on several occasions in shipments of bananas arriving at New Orleans from Spanish Honduras and Guatemala.

Fruit flies, *Anastrepha* sp., were taken in mangoes from Spanish Honduras, in *Casimiroa edulis* from Mexico, and guavas from Cuba; and *A. fraterculus* in guavas from the Isle of Pines and in mangoes, guavas, and Cuban plums from Cuba. *A. striata* was also collected in guavas from the same country. The spiny citrus white fly, *Aleurocanthus woglumi*, was intercepted on citrus and mangoes from Cuba and sapodillas from the Bahama Islands.

Several injurious avocado insects new to the United States were collected; such as, *Conotrachelus perseae* from Mexico and Costa Rica; *Heilipus perseae* from Panama and *Stenomacatanifer* from Spanish Honduras.

Other pests of importance intercepted include the European corn borer in broom corn from Italy, the gipsy and brown-tail moths, and the white tree pierid from France.

LIST, BY COUNTRIES, OF PESTS COLLECTED AND REPORTED FROM OCTOBER 1, 1919, TO DECEMBER 31, 1920, INCLUSIVE.

[All findings in the District of Columbia and those marked with an asterisk indicate Federal inspection.]

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| AFRICA. | | |
| Insects: | | |
| <i>Alicides</i> sp. (Curculionidae)..... | <i>Ipomoea</i> sp..... | District of Columbia. |
| <i>Apion</i> sp. (Curculionidae)..... | <i>Zizyphus</i> sp..... | Do. |
| <i>Braconer fasciculatus</i> (coffee-bean weevil)..... | (?) (Seed)..... | Do. |
| <i>Calendra oryzae</i> (rice weevil)..... | <i>Holcus sorghum</i> (2)..... | Do. |
| Do..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Chionaspis</i> sp. (scale insect)..... | <i>Mahobohobo</i> | Do. |
| <i>Hypothenemus</i> sp. (Scolytidae)..... | <i>Mukawaba</i> (seed)..... | Do. |
| <i>Lygaeus rivularis</i> (Lygaeidae)..... | Composite..... | Do. |
| <i>Mylabris</i> sp. (Mylabridae)..... | <i>Albizia</i> (seed)..... | Do. |
| Do..... | <i>Combretum</i> sp..... | Do. |
| <i>Olethreutid</i> | (?) (Seed)..... | Do. |
| <i>Pyralid</i> | <i>Swartzia madagascariensis</i> | Do. |
| Do..... | Tree..... | Do. |
| Do..... | <i>Trichilia emetica</i> (seed)..... | Do. |
| <i>Rhizoglyphus hyacinthi</i> (bulb mite)..... | <i>Asparagus</i> sp..... | Do. |
| <i>Spermophagus</i> sp. (Mylabridae)..... | <i>Afzelia</i> sp..... | Do. |
| Do..... | <i>Diospyros mespiliformis</i> | Do. |
| Do..... | <i>Ipomoea</i> sp..... | Do. |
| Diseases: | | |
| <i>Phyllachora graminis</i> | <i>Digitaria exilis</i> | Do. |
| <i>Rhizoctonia solani</i> | <i>Solanum tuberosum</i> | Louisiana.* |
| ALGERIA. | | |
| Insect: | | |
| <i>Ptinus brunneus</i> (Ptinidae)..... | <i>Beta macrocarpa</i> | District of Columbia. |
| ANGLO-EGYPTIAN SUDAN. | | |
| Insect: | | |
| Curculionid..... | <i>Zizyphus mucronata</i> | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| ARGENTINA. | | |
| Insects: | | |
| <i>Dermestes vulpinus</i> (Dermestidae)..... | <i>Zea mays</i> (corn)..... | New York City.* |
| <i>Diatraea</i> sp. (Pyralidae)..... | <i>Panicum miliaceum</i> | Pennsylvania.* |
| Do..... | <i>Zea mays</i> (corn)..... | New York City.* |
| <i>Lepidosaphes beckii</i> (purple scale)..... | <i>Citrus limonia</i> (lemon)..... | Florida. |
| <i>Mylabris</i> sp. (Mylabridae)..... | <i>Prosopis panta</i> | District of Columbia. |
| <i>Necrobia ruficollis</i> (Cleridae)..... | <i>Zea mays</i> (corn)..... | New York City.* |
| <i>Necrobia rufipes</i> (red-legged ham beetle)..... | Bones..... | Do. |
| <i>Rhizoglyphus hyacinthi</i> (bulb mite)..... | <i>Hyacinthus</i> sp. (bulbs)..... | Do. |
| <i>Trox</i> sp. (Scarabaeidae)..... | Bones..... | Do. |
| Disease: | | |
| Mottling (mosaic)..... | <i>Saccharum officinarum</i> | District of Columbia. |
| AUSTRALIA. | | |
| Insects: | | |
| <i>Anisolabis annulipes</i> (earwig)..... | <i>Platyserium</i> sp..... | California. |
| <i>Calendra oryzae</i> (rice weevil)..... | Napier grass..... | District of Columbia. |
| Do..... | <i>Pennisetum purpureum</i> | Do. |
| Do..... | <i>Saccharum sorghum</i> (seed) (2)..... | Do. |
| <i>Coccotrypes</i> sp. (Scolytidae)..... | <i>Kentia</i> sp. (seed)..... | New York City.* |
| <i>Monomorium</i> sp. (ant)..... | <i>Platyserium</i> sp..... | California. |
| <i>Mylabrid</i> | <i>Acacia baileyana</i> (seed)..... | District of Columbia. |
| Do..... | <i>Acacia retinoides</i> (seed)..... | Do. |
| <i>Mylabris chinensis</i> (Mylabridae)..... | <i>Glycine soja</i> (soybean)..... | Do. |
| <i>Mylabris</i> sp. (Mylabridae)..... | <i>Maximilliana regia</i> (seed)..... | New York City.* |
| <i>Olethreutid</i> | <i>Lomatia longifolia</i> | District of Columbia. |
| <i>Phthorimaea operculella</i> (potato tuber moth)..... | <i>Solanum tuberosum</i> (potato)..... | Washington.* |
| <i>Prenolepis obscura</i> (ant)..... | <i>Platyserium</i> sp..... | California. |
| <i>Prenolepis</i> sp. (ant)..... | do..... | Do. |
| <i>Saissetia oleae</i> (black scale)..... | <i>Olea</i> sp..... | District of Columbia. |
| <i>Sciara</i> sp. (Mycetophilidae)..... | Palm (seed)..... | New York City.* |
| <i>Sitodrepa panicea</i> (drug store beetle)..... | <i>Hardenbergia monophylla</i> | District of Columbia. |
| Do..... | <i>Lomatia fraseri</i> | Do. |
| <i>Tyroglyphus longior</i> (mite)..... | <i>Chrysanthemum</i> | Do. |
| Diseases: | | |
| <i>Aspergillus ochraceus</i> | <i>Macadamia ternifolia</i> | Do. |
| <i>Botrytis</i> sp..... | do..... | Do. |
| <i>Claviceps microcephala</i> | <i>Oryzopsis miliaceae</i> | Do. |
| <i>Darlucia filum</i> | <i>Danthonia semiannularis</i> | Do. |
| <i>Puccinia graminis</i> | <i>Triticum</i> sp..... | Do. |
| <i>Spongospora subterranea</i> | <i>Solanum tuberosum</i> | Washington.* |
| <i>Uromyces danthoniae</i> | <i>Danthonia semiannularis</i> | District of Columbia. |
| <i>Uromycladium robinsoni</i> | <i>Acacia melanoxylon</i> | Do. |
| AUSTRIA. | | |
| Insects: | | |
| <i>Syntomaspis druparum</i> (apple-seed Chalcid)... | <i>Malus sylvestris</i> (apple) (seed)..... | New York City.* |
| <i>Tyroglyphus farinae</i> (mite)..... | do..... | Do. |
| BAHAMA ISLANDS. | | |
| Insects: | | |
| <i>Aleurocanthus woglumi</i> (spiney citrus white fly)..... | <i>Achras sapota</i> (sapodilla)..... | Florida. |
| <i>Aleurodothrips fasciapennis</i> (Thrips)..... | <i>Cocos nucifera</i> (coconut palm)..... | Do. |
| <i>Aleurodothrips</i> sp. (thrips)..... | do..... | Do. |
| <i>Aspidiotus lataniae</i> (scale insect)..... | <i>Achras sapota</i> (sapodilla)..... | Do. |
| <i>Aspidiotus orientalis</i> (scale insect)..... | <i>Cocos nucifera</i> (coconut palm) (2)..... | Do. |
| <i>Calendra oryzae</i> (rice weevil)..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Chloridea obsoleta</i> (corn-ear worm)..... | <i>Lycopersicum esculentum</i> (tomato)..... | Do. |
| Do..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Cylas formicarius</i> (sweet potato weevil)..... | <i>Ipomoea batatas</i> (sweet potato) (3)..... | Do. |
| <i>Diaspis boisduvalii</i> (scale insect)..... | <i>Cocos nucifera</i> (coconut palm)..... | Do. |
| <i>Diatraea</i> sp. (Pyralidae)..... | <i>Saccharum officinarum</i> (sugar cane)..... | Do. |
| <i>Eusepea porcellus</i> (Curculionidae)..... | <i>Ipomoea batatas</i> (sweet potato)..... | Do. |
| <i>Hemichionaspis minor</i> (scale insect)..... | <i>Cocos nucifera</i> (coconut palm)..... | Do. |
| <i>Howardia biclavus</i> (mining scale)..... | Unknown tree..... | Do. |
| <i>Lepidosaphes beckii</i> (purple scale)..... | <i>Citrus sinensis</i> (orange)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| BAHAMA ISLANDS—continued. | | |
| Insects—Continued. | | |
| <i>Pseudaonidia articulatus</i> (rufous scale)..... | <i>Achras sapota</i> (sapodilla)..... | Florida. |
| Do..... | <i>Annona muricata</i> (sour sop)..... | Do. |
| Do..... | <i>Annona squamosa</i> (sugar apple)..... | Do. |
| Do..... | <i>Citrus sinensis</i> (orange)..... | Do. |
| Do..... | Spanish lime (<i>Cannipe</i>)..... | Do. |
| Do..... | (?)..... | Do. |
| <i>Pseudoparlatoria parlatorioides</i> (scale insect).... | Unknown tree..... | Do. |
| <i>Saissetia hemisphaerica</i> (hemispherical scale).... | <i>Cycas</i> sp. (sago palm)..... | Do. |
| <i>Targionia sacchari</i> (scale insect)..... | <i>Saccharum officinarum</i> (sugar cane) (5)..... | Do. |
| <i>Vinsonia stellifera</i> (scale insect)..... | <i>Achras sapota</i> (sapodilla)..... | Do. |
| BARBADOS. | | |
| Insects: | | |
| <i>Calendra oryzae</i> (rice weevil)..... | <i>Holcus sorghum</i> (seed)..... | District of Columbia. |
| <i>Sitotroga cerealella</i> (Angoumois grain moth)..... | do..... | Do. |
| BELGIAN CONGO. | | |
| Insects: | | |
| <i>Anthrribid</i> | <i>Copaifera mopane</i> | District of Columbia. |
| Do..... | <i>Kapimpi</i> | Do. |
| <i>Apion</i> sp. (<i>Apionidae</i>)..... | Grass (seed)..... | Do. |
| <i>Araecerus fasciculatus</i> (coffee-bean weevil)..... | <i>Manihot utilisissima</i> (cassava)..... | Do. |
| <i>Calendra oryzae</i> (rice weevil)..... | <i>Holcus sorghum</i> (seed) (12)..... | Do. |
| Do..... | <i>Pennisetum</i> (seed)..... | Do. |
| Do..... | <i>Phaseolus aureus</i> (bean)..... | Do. |
| Do..... | <i>Triticum aestivum</i> (wheat)..... | Do. |
| Do..... | <i>Vigna sinensis</i> (cowpeas) (2)..... | Do. |
| Do..... | Yellow corn..... | Do. |
| Do..... | <i>Zea mays</i> (corn) (4)..... | Do. |
| Do..... | <i>Eleusine coracana</i> (seed)..... | Do. |
| <i>Caryoborus</i> sp. (<i>Mylabridae</i>)..... | <i>Bauhinia</i> sp..... | Do. |
| <i>Cathartus advena</i> (foreign grain beetle)..... | <i>Ananas sativus</i> (pineapple)..... | Do. |
| Do..... | <i>Hyphaene</i> | Do. |
| Do..... | Melon (seed)..... | Do. |
| <i>Ceratitis</i> sp. (<i>Trypetidae</i>)..... | <i>Landolphia</i> | Do. |
| <i>Chionaspis</i> sp. (scale insect)..... | (?) (Tree)..... | Do. |
| <i>Cosmopterygid</i> | (?) (Seed of evergreen tree)..... | Do. |
| <i>Curculionid</i> | <i>Brachystegia</i> sp..... | Do. |
| <i>Ensina</i> sp. (<i>Trypetidae</i>)..... | <i>Bidens pilosa</i> | Do. |
| <i>Ephestia</i> sp. (<i>Pyrilidae</i>)..... | <i>Brachystegia</i> (seed)..... | Do. |
| Do..... | <i>Pennisetum</i> (seed)..... | Do. |
| Do..... | (?) (Seed)..... | Do. |
| <i>Eurytoma</i> sp. (<i>Eurytomidae</i>)..... | <i>Landolphia florida</i> (rubber tree)..... | Do. |
| Do..... | (?) (Tree seed)..... | Do. |
| <i>Eurytomid</i> | <i>Crotalaria</i> sp. (seed)..... | Do. |
| Do..... | Legume..... | Do. |
| Do..... | <i>Vigna sinensis</i> (cowpea) (seed)..... | Do. |
| <i>Gelechioid</i> | <i>Photinia majobolo</i> (?) (evergreen tree)..... | Do. |
| <i>Glyptina</i> sp. (<i>Chrysomelidae</i>)..... | Beans..... | Do. |
| <i>Lamophloeus pusillus</i> (<i>Cucujidae</i>)..... | Beans..... | Do. |
| Do..... | <i>Holcus sorghum</i> (seed)..... | Do. |
| Do..... | <i>Holcus sorghum sudanensis</i> (Sudan grass)..... | Do. |
| Do..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Lepidosaphes alba</i> (scale insect)..... | <i>Manihot utilisissima</i> (cassava)..... | Do. |
| <i>Mylabris chinensis</i> (<i>Mylabridae</i>)..... | Beans..... | Do. |
| <i>Mylabris obtectus</i> (bean weevil)..... | Beans (16)..... | Do. |
| Do..... | <i>Vigna sinensis</i> (cowpeas)..... | Do. |
| <i>Mylabris phaseoli</i> (<i>Mylabridae</i>)..... | Beans..... | Do. |
| <i>Mylabris quadrimaculatus</i> (four-spotted bean weevil)..... | Seeds of small green pea..... | Do. |
| Do..... | <i>Vigna sinensis</i> (cowpeas) (2)..... | Do. |
| Do..... | <i>Zea mays</i> (corn)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| BELGIAN CONGO—continued. | | |
| Insects—Continued. | | |
| Mylabris sp. (Mylabridae)..... | Acacia sp. | District of Columbia. |
| Do. | Beans | Do. |
| Do. | Bean ("Indumba") | Do. |
| Do. | Sphenostylis stenocarpa | Do. |
| Do. | (?) Tree | Do. |
| Do. | (?) Woody vine | Do. |
| Pheidole megacephala (ant)..... | Beans | Do. |
| Pheidole sp. (ant)..... | Eugenia jambos (rose apple)..... | Do. |
| Phycitid..... | (?) Seed | Do. |
| Plodia interpunctella (Indian meal moth)..... | (?) Seed | Do. |
| Pyralid..... | Mongonga..... | Do. |
| Do. | Ricinus communis (castor-oil bean)..... | Do. |
| Do. | Soap fruit..... | Do. |
| Do. | (?) Seed pods..... | Do. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Voandezia (?) (seed)..... | Do. |
| Rhizopertha dominica (lesser grain borer)..... | Holcus sorghum (seed) (2)..... | Do. |
| Do. | Zea mays (corn) (seed)..... | Do. |
| Ripersia sp. (scale insect)..... | Bulb (2)..... | Do. |
| Selenocephalus africanus (Cicadellidae)..... | Tricholaena rosea (seed)..... | Do. |
| Silvanus surinamensis (saw-toothed grain beetle)..... | Zea mays (corn)..... | Do. |
| Spermophagus sp. (Mylabridae)..... | Ipomoea sp. (seed)..... | Do. |
| Stephanoderes sp. (Scolytidae)..... | Euphorbia sp. | Do. |
| Tribolium confusum (confused flour beetle)..... | Holcus sorghum (kafir corn)..... | Do. |
| Do. | Majoda kafir melon (seed)..... | Do. |
| Do. | Zea mays (corn)..... | Do. |
| Tribolium ferrugineum (rust-red flour beetle)..... | Holcus sorghum (seed)..... | Do. |
| Tropideres sp. (Anthribidae)..... | Sclerocarya caffra..... | Do. |
| Diseases: | | |
| Haplobasidium sp. | Manihot utilissima | Do. |
| Phlyctaena sp. | do..... | Do. |
| Spegazzinia ornata..... | Oxalis sp. | Do. |
| BELGIUM. | | |
| Insects: | | |
| Aspidiotus britannicus (scale insect)..... | Laurus sp. (laurel)..... | District of Columbia. |
| Coccus hesperidum (soft brown scale)..... | do..... | Do. |
| Eucalymnatus tessellatus (tessellated scale)..... | do..... | Pennsylvania. |
| Limoniuss sp. (Elatерidae)..... | Soil about azalea roots..... | District of Columbia. |
| Disease: | | |
| Exobasidium sp..... | Azalea japonica..... | Do. |
| BERMUDA. | | |
| Insects: | | |
| Catorama sp. (Anobiidae)..... | Kentia sp. (palm) (seed)..... | Pennsylvania. |
| Coccotrypes sp. (Scolytidae)..... | do..... | Do. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Tulipa sp. (bulb)..... | Louisiana.* |
| Do. | Zephyranthes rosea..... | District of Columbia. |
| Tyroglyphid (mite)..... | Tulipa sp. (bulb)..... | Louisiana.* |
| BOHEMIA. | | |
| Insect: | | |
| Lepidosaphes ulmi (oyster-shell scale)..... | Pyrus communis (pear)..... | District of Columbia. |
| BRAZIL. | | |
| Insects: | | |
| Aleyrodes sp. (white fly)..... | (?) Unknown plant..... | District of Columbia. |
| Anisolabis sp. (Forficulidae)..... | Packing about orchids..... | Do. |
| Anthocorid..... | Physalis angulata..... | Do. |
| Aspidiotus lataniae (scale insect)..... | Ficus sp. | Do. |
| Calendra oryzae (rice weevil)..... | Carica sp. | Do. |
| Do. | Gossypium sp. (cotton) (seed)..... | New York City.* |
| Do. | Manihot utilissima (mandioca)..... | Do. |
| Do. | Physalis angulata..... | District of Columbia. |
| Do. | Zea mays (corn)..... | New York City.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--------------------------------------|-----------------------|
| BRAZIL—continued. | | |
| Insects—Continued. | | |
| Carpophilus hemipterus (Nitidulidae)..... | Guilielma speciosa..... | District of Columbia. |
| Do..... | Manihot utilisissima (mandioca)..... | New York City.* |
| Cathartus sp. (Cucujidae)..... | Araucaria sp..... | District of Columbia. |
| Cecidomyid..... | Theobroma sp..... | Do. |
| Cerambycid..... | Wood..... | Do. |
| Chionaspis citri (scale insect)..... | Citrus sinensis (orange)..... | Florida. |
| Coccus viridis (scale insect)..... | Achras sapota (sapodilla)..... | District of Columbia. |
| Do..... | Chrysophyllum cainito..... | Do. |
| Desmometopa tarsalis (Agromyzidae)..... | Manihot utilisissima (mandioca)..... | New York City.* |
| Diaspis sp. (scale insect)..... | Orchids..... | District of Columbia. |
| Drosophila amoena (Drosophilidae)..... | Platonia insignis..... | Do. |
| Drosophila repleta (Drosophilidae)..... | Manihot utilisissima (mandioca)..... | New York City.* |
| Drosophila sp. (Drosophilidae)..... | do..... | Do. |
| Drosophila sp. (Drosophilidae)..... | do..... | Do. |
| Forficulid (earwig)..... | do..... | Do. |
| Gnamptogenys sp. (ant)..... | do..... | Do. |
| Gnathocerus maxillosus (Tenebrionidae)..... | Gossypium sp. (cotton)..... | Do. |
| Hemichionaspis minor (scale insect)..... | Caesalpinia sp..... | District of Columbia. |
| Do..... | Machaerium allemanii..... | Do. |
| Hemichionaspis sp. (scale insect)..... | Ficus sp..... | Do. |
| Howardia biclavus (mining scale)..... | Mimusops coriacea..... | Do. |
| Do..... | Mosquilea tomentosa..... | Do. |
| Do..... | Tecoma chrysotricha..... | Do. |
| Ischnaspis longirostris (thread scale)..... | Ixora coccinea..... | Do. |
| Do..... | Quartia sp..... | Do. |
| Leucotermes tenuis (termite)..... | In soil..... | Do. |
| Lonchaea sp. (Sapromyzidae)..... | Lucuma rivicoa (seeds)..... | Do. |
| Do..... | Theobroma sp..... | Do. |
| Microvelia sp..... | Gossypium sp. (cotton)..... | Do. |
| Mylabrid..... | Virola sebifera..... | Do. |
| Mylabris obtectus (bean weevil)..... | Beans..... | New York City.* |
| Mylabris sp. (Mylabridae)..... | Legumes..... | District of Columbia. |
| Do..... | Medicago..... | Do. |
| Odontomachus haematoda (ant)..... | Mammea americana (mamey)..... | Do. |
| Do..... | Packing about orchids..... | Do. |
| Pheidole megacephala (ant)..... | do..... | Do. |
| Philygria picta (Ephydriidae)..... | (?)..... | Do. |
| Ponera sp. (ant)..... | Soil about roots of plants..... | Do. |
| Prenolepis longicornis (ant)..... | In packing..... | Do. |
| Do..... | Physalis angulata..... | Do. |
| Pseudaonidia articulatus (scale insect)..... | Chrysophyllum cainito..... | Do. |
| Pseudaonidia trilobitiformis (scale insect)..... | Grass..... | Do. |
| Pseudococcus adonidum (long-tailed mealy bug)..... | Chrysophyllum cainito..... | Do. |
| Do..... | Manaca plants..... | Do. |
| Do..... | Theobroma cacao (chocolate)..... | Do. |
| Pseudopachymerus sp. (Mylabridae)..... | Legumes..... | Do. |
| Pseudoparlatoria parlatorioides (scale insect)..... | Orchids..... | Do. |
| Pulvinaria psidii (scale insect)..... | Mammea americana (mamey)..... | Do. |
| Pyralid..... | Beans..... | New York City.* |
| Do..... | Gossypium sp. (cotton)..... | Do. |
| Rhizoglyphus sp. (mite)..... | Guilielma speciosa..... | District of Columbia. |
| Do..... | Manihot sp. (cuttings)..... | Do. |
| Do..... | Theobroma cacao (seed pod)..... | Do. |
| Do..... | Theobroma sp..... | Do. |
| Saissetia hemisphaerica (hemispherical scale)..... | Chrysophyllum cainito..... | Do. |
| Saissetia oleae (black scale)..... | Cassia sp..... | Do. |
| Saissetia sp. (scale insect)..... | Chrysophyllum cainito..... | Do. |
| Scarabæid..... | Soil around roots of plants..... | Do. |
| Silvanus surinamensis (saw-toothed grain beetle)..... | Theobroma cacao (chocolate)..... | Do. |
| Stelidota sp. (Nitidulidae)..... | In soil..... | Do. |
| Tenebrio molitor (yellow meal worm)..... | Gossypium sp. (seed)..... | New York City.* |
| Tetraleurodes mori (white fly)..... | Moquila tomentosa..... | District of Columbia. |
| Tineid..... | Orchids..... | Do. |
| Tribolium ferrugineum (rust-red flour beetle)..... | Oryza sativa (rice)..... | New York City.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|-------------------------------------|-----------------------|
| BRAZIL—continued. | | |
| Diseases: | | |
| Diplodia cacaoicola..... | Theobroma sp..... | District of Columbia. |
| Diplodia manihotis..... | Manihot..... | Do. |
| BRITISH EAST AFRICA. | | |
| Insects: | | |
| Bruchobius sp. (Pteromalidae)..... | (?) (Seed)..... | District of Columbia. |
| Calendra oryzae (rice weevil)..... | Durro seed (2)..... | Do. |
| Do..... | Holcus sorghum (kafir corn)..... | Do. |
| Do..... | Triticum aestivum (wheat)..... | Do. |
| Do..... | Zea mays (corn)..... | Do. |
| Epyris sp. (Bethyridae)..... | (?) (Seed)..... | Do. |
| Eurytoma sp. (Eurytomidae)..... | do..... | Do. |
| Lonchasa sp. (Sapromyzidae)..... | Sula seed..... | Do. |
| Monomorium sp. (ant)..... | Hibiscus sp. (leaves)..... | Do. |
| Mylabris obtectus (bean weevil)..... | Beans (mixed)..... | Do. |
| Mylabris quadrimaculatus (four-spotted bean weevil)..... | do..... | Do. |
| Mylabris sp. (Mylabridae)..... | Dolichos lablab (seed)..... | Do. |
| Do..... | Erythrina sp. (seed)..... | Do. |
| Do..... | Mimosa sp..... | Do. |
| Pheidole sp. (ant)..... | Grass (seed)..... | Do. |
| Sitotroga cerealella (Angoumois grain moth)..... | Durro seed..... | Do. |
| Spermophagus sp. (Mylabridae)..... | Acacia sp. (seed)..... | Do. |
| Do..... | Hibiscus sp..... | Do. |
| Zonabris kersteni (Meloidae)..... | do..... | Do. |
| BRITISH GUIANA. | | |
| Disease: | | |
| Thielaviopsis paradoxa..... | Saccharum officinarum..... | Louisiana. |
| BRITISH WEST INDIES. | | |
| Insects: | | |
| Asterolecanium pustulans (scale insect)..... | Manihot sp..... | District of Columbia. |
| Euscepes batatae (West Indian sweet potato weevil)..... | Ipomoea batatas (sweet potato)..... | New York City.* |
| Hemichionaspis minor (scale insect)..... | Manihot sp..... | District of Columbia. |
| Lepidosaphes alba (scale insect)..... | do..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus aurantifolia (lime)..... | New York City.* |
| Do..... | Citrus sinensis (orange)..... | Do. |
| Pyralid..... | Cassia sp. (bean pods)..... | California. |
| CANADA. | | |
| Insects: | | |
| Diaspis cattleyae (scale insect)..... | Epidendrum nemorale (orchid)..... | District of Columbia. |
| Lampyrid..... | Malus sylvestris (apple)..... | Massachusetts. |
| Phorbia brassicae (Anthomyidae)..... | Brassica rapa (turnips)..... | Pennsylvania.* |
| Diseases: | | |
| Bacterium tumefaciens..... | Rubus sp. (2)..... | District of Columbia. |
| Gloeosporium venetum..... | do..... | Do. |
| Leptothyrium pomi..... | do..... | Do. |
| CANAL ZONE. | | |
| Disease: | | |
| Diplodia sp..... | Cocos nucifera..... | Florida. |
| CANARY ISLANDS. | | |
| Insect: | | |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Musa sp. (banana)..... | Florida. |
| Diseases: | | |
| Cladosporium citri..... | Citrus limonia..... | Louisiana.* |
| Penicillium italicum..... | do..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| CAPE PROVINCE. | | |
| Diseases: | | |
| Cephalothecium roseum..... | Protea latifolia..... | District of Columbia. |
| Do..... | Protea susanea..... | Do. |
| Penicillium digitatum..... | Amygdalus persica nucipersica..... | California. |
| Penicillium sp..... | Protea latifolia..... | District of Columbia. |
| Do..... | Protea susanea..... | Do. |
| Trichoderma sp..... | Virgilia capensis..... | Do. |
| Uromyces aloes..... | Aloe mesambryanthemoides..... | Do. |
| CENTRAL AMERICA. | | |
| Disease: | | |
| Acrostalagmus sp..... | Musa sp..... | District of Columbia. |
| CEYLON. | | |
| Insects: | | |
| Corcyra cephalonica (Pyralidae)..... | Dioscorea sp. (yam)..... | California. |
| Niptus sp. (Ptinidae)..... | Desfontainia ilicifolia..... | District of Columbia. |
| Phthorimaea operculella (potato tuber moth)..... | Solanum tuberosum (Irish potato)..... | Louisiana.* |
| Rhizoglyphus hyacinthi (bulb mite)..... | Magosteen seeds..... | District of Columbia. |
| CHINA. | | |
| Insects: | | |
| Aleuromigda n. sp. (white fly)..... | Litchi plants..... | District of Columbia. |
| Anisolabis annulipes (earwig)..... | Narcissus sp. (bulbs)..... | Louisiana.* |
| Antonina sp. (scale insect)..... | Bambusa sp. (edible bamboo)..... | District of Columbia. |
| Araecerus fasciculatus (coffee-bean weevil)..... | Thea sp. (tea)..... | California. |
| Aspidiotus lataniae (scale insect)..... | Bauhinia blakeana..... | District of Columbia. |
| Aspidiotus perniciosus (San Jose scale)..... | Pyrus communis (pear)..... | Do. |
| Aspidiotus sp. (scale insect)..... | Citrus ichangensis..... | Do. |
| Do..... | Pyrus communis (pear)..... | Do. |
| Calendra oryzae (rice weevil)..... | Cucumis sativus (cucumber) (seed)..... | Do. |
| Do..... | Dioscorea sp. (yams)..... | California. |
| Cathartus advena (foreign grain beetle)..... | Amygdalus persica (peach)..... | District of Columbia. |
| Do..... | Cesalia sp..... | Do. |
| Do..... | Dasheen tubers..... | Do. |
| Do..... | Dioscorea sp. (yams)..... | California. |
| Chrysomphalus aurantii (red scale of California)..... | Citrus nobilis (mandarin orange)..... | District of Columbia. |
| Coccus sp. (scale insect)..... | Citrus ichangensis..... | Do. |
| Do..... | Citrus nobilis (mandarin orange)..... | Do. |
| Emporpus signatus (Cucujidae)..... | Dioscorea sp. (yams)..... | California. |
| Ephesiid..... | Juglans sp. (walnut) (meats)..... | Do. |
| Hemichionaspis aspidistrae (Aspidistra scale)..... | Citrus grandis (grapefruit)..... | Washington.* |
| Hypothenemus sp. (Scolytidae)..... | (?) (Dried twigs)..... | California. |
| Laemophloeus pusillus (Cucujidae)..... | Allium sativum (garlic)..... | District of Columbia. |
| Do..... | Oryza sativa (rice)..... | California. |
| Lecanium sp. (scale insect)..... | Pyrus communis (pear) (5)..... | District of Columbia. |
| Lepidosaphes sp. (scale insect)..... | Pyrus communis (pear) (6)..... | Do. |
| Leucaspis japonica (scale insect)..... | Pyrus communis (pear) (4)..... | Do. |
| Lophocateres pusillus (Ostomidae)..... | Beans..... | California. |
| Minthea rugicollis (Lyctidae)..... | (?) (Dried twigs)..... | Do. |
| Monomorium pharaonis (ant)..... | Chenopodiaceae..... | District of Columbia. |
| Do..... | Evergreen ("Juk berry")..... | Do. |
| Do..... | Herbs..... | California. |
| Mylabris chinensis (Mylabridae)..... | Black bean (seed)..... | District of Columbia. |
| Do..... | Small green pea..... | Do. |
| Mylabris sp..... | Gleditsia sinensis..... | Do. |
| Parlatoria chinensis (scale insect)..... | Pyrus communis (pear)..... | Do. |
| Parlatoria pergandei (chaff scale)..... | Citrus grandis (grapefruit)..... | Washington.* |
| Do..... | Citrus ichangensis..... | District of Columbia. |
| Do..... | Citrus nobilis (mandarin orange)..... | Do. |
| Do..... | Pyrus communis (pear) (2)..... | Do. |
| Pectinophora gossypiella (pink bollworm)..... | Gossypium sp. (cotton) (2)..... | Do. |
| Prenolepis sp. (ant)..... | Dioscorea sp. (yams)..... | Honolulu. |
| Psyllid..... | Pyrus communis (pear)..... | District of Columbia. |
| Pulvinaria sp. (scale insect)..... | do..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|---|-----------------------|
| CHINA—continued. | | |
| Insects—Continued. | | |
| Pyralid..... | Cryptamenia japonica..... | District of Columbia. |
| Do..... | Helianthus sp. (sunflower) (2)..... | Do. |
| Rhizoglyphus rhyacinthi (bulb mite)..... | Narcissus sp. (bulbs)..... | Louisiana.* |
| Rhizoglyphus rhizophagus (mite)..... | do..... | Washington.* |
| Saissetia hemispherica (hemispherical scale)..... | Litchi plants..... | District of Columbia. |
| Setomorpha insectella (Tineidae)..... | Bird seed..... | California. |
| Do..... | Dioscorea sp. (yams)..... | Do. |
| Sitotroga cerealella (Angoumois grain moth)..... | Paddy rice..... | Do. |
| Solenopsis geminata var. rufa (ant)..... | Packing around plants..... | District of Columbia. |
| Tenebrionides mauritanica (Trogositidae)..... | Gossypium sp. (cotton) (seed)..... | Louisiana.* |
| Trypetid..... | Citrus ichangensis..... | District of Columbia. |
| Tyroglyphid..... | Zizyphus jujuba..... | Do. |
| Tyroglyphus longior (mite)..... | Nephelium longana..... | Do. |
| Diseases: | | |
| Diplodia castaneae..... | Castanea sp..... | Do. |
| Phomopsis citri..... | Citrus grandis..... | Washington.* |
| Puccinia helianthi..... | Helianthus annuus..... | District of Columbia. |
| Uromyces setariae italicae..... | Chaetochloa italica..... | Do. |
| COLOMBIA. | | |
| Insects: | | |
| Aspidiotus hederæ (ivy scale)..... | Ananas sativus (pineapple) (shoots)..... | District of Columbia. |
| Aspidiotus orientalis (scale insect)..... | Cocos nucifera (coconut)..... | Florida. |
| Calendra oryzae (rice weevil)..... | Zea mays (corn)..... | District of Columbia. |
| Cathartus cassiae (Cucujidae)..... | do..... | Do. |
| Chrysomphalus sp. (scale insect)..... | Ficus sp..... | Do. |
| Diaspis boisduvalii (scale insect)..... | Silk grass..... | Do. |
| Howardia biclavus (mining scale)..... | Persea gratissima (avocado)..... | Do. |
| Hypothenemus sp. (Scolytidae)..... | Palm (seed)..... | Do. |
| Lepidosaphes beekii (purple scale)..... | Citrus aurantifolia (lime)..... | Florida. |
| Monomorium destructor (ant)..... | Ochronea lagopus..... | New York City.* |
| Pagiocerus rimosus (Scolytidae)..... | Zea mays (corn)..... | District of Columbia. |
| Pheidole flavens (ant)..... | Annona sp..... | Do. |
| Pseudonidia sp. (scale insect)..... | Persea gratissima (budwood)..... | Do. |
| Pseudococcus bromeliae (scale insect)..... | Ananas sativus (pineapple) (shoots)..... | Do. |
| Pyralid..... | Gossypium sp. (cotton)..... | Louisiana.* |
| COSTA RICA. | | |
| Insects: | | |
| Anthonomus grandis (Mexican cotton boll weevil)..... | Gossypium sp. (cotton)..... | District of Columbia. |
| Aspidiotus cyanophylli (scale insect)..... | Dahlia sp..... | Do. |
| Aspidiotus lataniae (scale insect)..... | Dahlia sp. (2)..... | Do. |
| Do..... | Persea gratissima (avocado) (5)..... | Do. |
| Do..... | Persea sp..... | Do. |
| Do..... | (?)..... | Do. |
| Aspidiotus sp. (scale insect)..... | Citrus sinensis (orange)..... | Do. |
| Do..... | Persea gratissima (avocado)..... | Do. |
| Aulacaspis pentagona (scale insect)..... | Wercklea insignis..... | Do. |
| Camponotus sp. (ant)..... | Dahlia sp..... | Do. |
| Carpophilus dimidiatus (Nitidulidae)..... | Bunchosia sp..... | Do. |
| Do..... | Sapindaceae (seed)..... | Do. |
| Chrysomphalus dictyospermi (scale insect)..... | Persea gratissima (avocado)..... | Do. |
| Chrysomphalus perseae (scale insect)..... | Persea gratissima (avocado) (2)..... | Do. |
| Chrysomphalus sp. (scale insect)..... | Passiflora quadrangularis (cuttings)..... | Do. |
| Coccus acuminatus (scale insect)..... | Nerium oleander (oleander)..... | New York City.* |
| Conotrachelus perseae (weevil)..... | Persea gratissima (avocado)..... | Louisiana.* |
| Gelechiid..... | Dahlia sp. (cuttings)..... | District of Columbia. |
| Howardia biclavus (mining scale)..... | Annona muricata (sour sop)..... | Do. |
| Do..... | Coffea sp. (coffee)..... | Florida. |
| Do..... | Dahlia sp..... | District of Columbia. |
| Lepidosaphes beekii (purple scale)..... | Citrus sinensis (orange)..... | Do. |
| Do..... | do..... | Louisiana.* |
| Lepidosaphes lasianthi (scale insect)..... | Crotons and cut flowers..... | District of Columbia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| COSTA RICA—continued. | | |
| Insects—Continued. | | |
| Lepidosaphes sp. (scale insect)..... | Orchid..... | New York City.* |
| Monomorium pharaonis (ant)..... | Crotons and cut flowers..... | Louisiana.* |
| Myzus sp. (Aphidinae)..... | Solanum tuberosum (potato)..... | District of Columbia. |
| Orthezia insignis (scale insect)..... | Nerium oleander (oleander)..... | New York City.* |
| Pheidole punctatissima (ant)..... | Dahlia sp. (cuttings)..... | District of Columbia. |
| Pheidole sp. (ant)..... | do..... | Do. |
| Phthorimaea operculella (potato tuber moth)..... | Solanum tuberosum (potato)..... | Do. |
| Phycid..... | Rubus sp. (seed)..... | Do. |
| Protopulvinaria pyriformis (scale insect)..... | Nerium oleander (oleander)..... | New York City.* |
| Pseudaonidia articulatus (rufous scale)..... | Nerium oleander (oleander)..... | Do. |
| Saissetia hemisphaerica (hemispherical scale)..... | do..... | Do. |
| Setomorpha insectella (Tineidae)..... | Bunchosia sp. (seed)..... | District of Columbia. |
| Silvanus signatus (Cucujidae)..... | Sapindaceae (seed)..... | Do. |
| Silvanus vulgaris (Cucujidae)..... | do..... | Do. |
| Triphleps sp. (Anthocoridae)..... | do..... | Do. |
| CUBA. | | |
| Insects: | | |
| Aleurocanthus woglumi (spiney citrus white fly)..... | Citrus aurantifolia (lime) (2)..... | Florida. |
| Do..... | Citrus grandis (grapefruit) (2)..... | Do. |
| Do..... | Mangifera indica (mango)..... | Do. |
| Aleurothrixus howardi (woolly white fly)..... | Citrus aurantifolia (lime) (2)..... | Do. |
| Do..... | Citrus grandis (grapefruit) (3)..... | Do. |
| Do..... | Citrus sp..... | Do. |
| Anastrepha fraterculus (fruit fly)..... | Mangifera indica (mango)..... | Do. |
| Do..... | Psidium guajava (guava) (5)..... | Do. |
| Do..... | Spondias purpurea (Cuban plum) (2)..... | Do. |
| Anastrepha striata (fruit fly)..... | Psidium guajava (guava)..... | Do. |
| Anastrepha sp. (fruit fly)..... | do..... | Do. |
| Aphid..... | Bougainvillea sp..... | Do. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Aspidiotus cyanophylli (scale insect)..... | Laurus sp. (laurel)..... | Do. |
| Aspidiotus destructor (scale insect)..... | Cocos nucifera (coconut palm) (41)..... | Do. |
| Do..... | Grevillea robusta (robust)..... | Do. |
| Do..... | Palm (3)..... | Do. |
| Do..... | Ravenala madagascariensis (travelers' tree)..... | Do. |
| Do..... | Ricinus communis (castor bean)..... | Do. |
| Do..... | Vine..... | Do. |
| Aspidiotus fabernii (scale insect)..... | Annona squamosa (sugar apple)..... | Do. |
| Aspidiotus lataniae (scale insect)..... | Amygdalus communis (almond)..... | Do. |
| Do..... | Annona muricata (sour sop)..... | Do. |
| Do..... | Aralia sp..... | Do. |
| Do..... | Ceba (?) (cuttings)..... | Do. |
| Do..... | Cocos nucifera (coconut palm)..... | Do. |
| Do..... | do..... | Louisiana.* |
| Do..... | Cycas revoluta..... | Florida. |
| Do..... | Cycas sp. (sago palm)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Saw grass..... | Do. |
| Do..... | Unknown plant..... | Do. |
| Aspidiotus orientalis (scale insect)..... | Annona squamosa (sugar apple)..... | Do. |
| Do..... | Cocos nucifera (coconut palm) (50)..... | Do. |
| Do..... | Cycas revoluta (palm)..... | Do. |
| Do..... | Cycas sp. (sago palm) (2)..... | Do. |
| Do..... | Murraya exotica..... | Do. |
| Do..... | Musa sp. (banana)..... | Do. |
| Do..... | Palm..... | Do. |
| Aspidiotus subsimilis anonae (scale insect)..... | Ceba (?) (cuttings)..... | Do. |
| Do..... | Unknown tree..... | Do. |
| Do..... | Unknown..... | Do. |
| Do..... | Vine..... | Do. |
| Aspidiotus sp. (scale insect)..... | Acrocomia sclerocarpa (corojo palm)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|---------------|
| CUBA—continued | | |
| Insects—Continued. | | |
| Aspidotus sp. (scale insect)..... | Citrus aurantifolia (lime)..... | Florida. |
| Do..... | Nerium oleander (oleander)..... | Do. |
| Do..... | Psidium guajava (guava)..... | Do. |
| Do..... | Vitis sp. (grape)..... | Do. |
| Asterolecanium bambusae (bamboo scale)..... | Bambusa sp. (bamboo) (2)..... | Do. |
| Asterolecanium pustulans (scale insect)..... | Jasminum sp. (jasmine) (2)..... | Do. |
| Do..... | Nerium oleander (oleander)..... | Do. |
| Do..... | Vine..... | Do. |
| Do..... | (?)..... | Do. |
| Calendra oryzae (rice weevil)..... | Zea mays (corn) (2)..... | Do. |
| Carpophilus sp. (Nitidulidae)..... | Ipomoea batatas (sweet potato)..... | Do. |
| Cathartus advena (foreign grain beetle)..... | Cocos nucifera (coconut)..... | Do. |
| Chionaspis citri (scale insect)..... | Citrus aurantifolia (lime)..... | Do. |
| Do..... | Citrus sp..... | Do. |
| Chloridea obsoleta (corn earworm)..... | Zea mays (corn)..... | Do. |
| Chrysomphalus aonidum (Florida red scale)..... | Acrocomia sclerocarpa (corojo palm)..... | Do. |
| Do..... | Citrus aurantifolia (lime)..... | Do. |
| Do..... | Citrus grandis (grapefruit) (2)..... | Do. |
| Do..... | Citrus sp..... | Do. |
| Do..... | Cocos nucifera (coconut)..... | Louisiana.* |
| Do..... | Cycas sp. (sago palm)..... | Florida. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Musa sp. (banana) (2)..... | Do. |
| Do..... | Palm..... | Do. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Do..... | Unknown plant..... | Do. |
| Chrysomphalus dictyospermi (scale insect)..... | Citrus sp..... | Do. |
| Do..... | Palm..... | Do. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Coccus hesperidum (soft brown scale)..... | Carica papaya (papaya) (2)..... | Do. |
| Do..... | Citrus grandis (grape fruit) (2)..... | Do. |
| Do..... | Citrus sinensis (orange)..... | Do. |
| Do..... | Citrus sp..... | Do. |
| Do..... | Fern..... | Do. |
| Conchaspis angraeci (scale insect)..... | Croton..... | Do. |
| Cylas formicarius (sweet-potato weevil)..... | Ipomoea batatas (sweet potato) (19)..... | Do. |
| Do..... | Ipomoea batatas (sweet potato) (2)..... | Louisiana.* |
| Dialeurodes citrifolii (white fly)..... | Citrus aurantifolia (lime)..... | Florida. |
| Diaspis boisduvalii (scale insect)..... | Cocos nucifera (coconut palm) (12)..... | Do. |
| Diaspis echinocacti cacti (scale insect)..... | Cactus..... | Do. |
| Diaspis pentagona (West Indian peach scale)..... | Unknown..... | Do. |
| Diatraea saccharalis (sugar-cane moth borer)..... | Saccharum officinarum (sugar cane) (3)..... | Do. |
| Diatraea sp. (Pyralidae)..... | Saccharum officinarum (sugar cane) (23)..... | Do. |
| Drosophila punctulata (Drosophilidae)..... | Solanum tuberosum (potato)..... | Louisiana.* |
| Euscepes batatae (sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | Do. |
| Haplothrips merrilli (Thrips)..... | Cocos nucifera (coconut palm) (3)..... | Florida. |
| Haplothrips sp. (Thrips)..... | Cocos nucifera (coconut palm) (9)..... | Do. |
| Hemichionaspis aspidistrae (Aspidistra scale)..... | Agave rigida sisalana (sisal hemp) (2) .. | Do. |
| Do..... | Cocos nucifera (coconut palm)..... | Do. |
| Do..... | Palm..... | Do. |
| Hemichionaspis minor (scale insect)..... | Annona muricata (sour sop)..... | Do. |
| Do..... | Annona squamosa (sugar apple)..... | Do. |
| Do..... | Bryophyllum sp..... | Do. |
| Do..... | Ceba (?) (cuttings)..... | Do. |
| Do..... | Cocos nucifera (coconut palm) (8)..... | Do. |
| Do..... | Hibiscus sp..... | Do. |
| Do..... | Palm..... | Do. |
| Do..... | Poinciana regia (royal poinciana)..... | Do. |
| Hemichionaspis sp. (scale insect)..... | Tulipa sp. (tulip tree) (2)..... | Do. |
| Do..... | Unknown leaf..... | Do. |
| Howardia biclavus (mining scale)..... | Annona squamosa (sugar apple)..... | Do. |
| Do..... | Carica papaya (papaya)..... | Do. |
| Do..... | Casuarina equisetifolia (Australian pine)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| CUBA—continued. | | |
| Insects—Continued. | | |
| Howardia biclavus (mining scale)..... | Citrus sinensis (orange)..... | Florida. |
| Do..... | Citrus sp..... | Do. |
| Do..... | Coffea sp. (coffee)..... | Do. |
| Do..... | Ficus sp. (fig)..... | Do. |
| Do..... | Lucuma nervosa ("canistel")..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Pachira fastuosa (cuttings) (2)..... | District of Columbia. |
| Do..... | Unknown..... | Florida. |
| Laemophloeus pusillus (Cucujidae)..... | Solanum tuberosum (potato)..... | Louisiana. * |
| Lepidosaphes beckii (purple scale)..... | Citrus aurantifolia (lime) (5)..... | Florida. |
| Do..... | Citrus grandis (grapefruit)..... | District of Columbia. |
| Do..... | Citrus grandis (grapefruit) (5)..... | Florida. |
| Do..... | Citrus limonia (lemon) (2)..... | Do. |
| Do..... | Citrus nobilis (tangerine) (3)..... | Do. |
| Do..... | Citrus sinensis (orange) (16)..... | Do. |
| Do..... | Citrus sp. (6)..... | Do. |
| Do..... | Murraya exotica..... | Do. |
| Do..... | (?) (2)..... | Do. |
| Lepidosaphes gloverii (Glover's scale)..... | Citrus aurantifolia (lime)..... | Do. |
| Do..... | Citrus grandis (grapefruit)..... | District of Columbia. |
| Lepidosaphes sp. (scale insect)..... | Palm..... | Florida. |
| Lonchaea sp. (Sapromyzidae)..... | Ipomoea batatas (sweet potato)..... | Louisiana. * |
| Parlatoria pergandei (chaff scale)..... | Asparagus sp..... | Florida. |
| Do..... | Citrus grandis (grapefruit) (3)..... | Do. |
| Do..... | Citrus nobilis (tangerine)..... | Do. |
| Do..... | Citrus sinensis (orange) (2)..... | Do. |
| Do..... | Croton (4)..... | Do. |
| Do..... | Mangifera indica (mango)..... | Do. |
| Prenolepis sp. (ant)..... | Saccharum officinarum (sugar cane)..... | Do. |
| Pseudaonidia articulatus (rufous scale)..... | Citrus aurantifolia (lime) (3)..... | Do. |
| Do..... | Citrus grandis (grapefruit)..... | District of Columbia. |
| Do..... | Citrus grandis (grapefruit) (5)..... | Florida. |
| Do..... | Citrus sinensis (orange)..... | Do. |
| Do..... | Citrus sp. (2)..... | Do. |
| Do..... | Coffea sp. (coffee) (3)..... | Do. |
| Do..... | Croton (3)..... | Do. |
| Do..... | Jasminum sp. (jasmine)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Nerium oleander (oleander)..... | Do. |
| Do..... | Palm..... | Do. |
| Pseudaonidia tesserata (scale insect)..... | Vine (3)..... | Do. |
| Pseudoschnaspis alienus (scale insect)..... | Annona squamosa (sugar apple) (2)..... | Do. |
| Do..... | Caladium sp..... | Do. |
| Do..... | Jasminum sp. (jasmine)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Melia azedarach (chinaberry)..... | Do. |
| Do..... | Psidium guajava (guava)..... | Do. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Do..... | (?) Unknown soft plant..... | Do. |
| Pseudococcus adonidum (long-tailed mealy bug)..... | Croton..... | Do. |
| Do..... | Succulent plant..... | Do. |
| Do..... | Unknown tree..... | Do. |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Artocarpus incisa (breadfruit)..... | Do. |
| Do..... | Musa sp. (banana)..... | Do. |
| Pseudococcus citri (citrus mealy bug)..... | Mentha sp. (mint)..... | Do. |
| Pseudococcus longispinus (long-tailed mealy bug)..... | Orchid..... | Do. |
| Do..... | Vine..... | Do. |
| Pseudococcus nipae (palm mealy bug)..... | Annona reticulata (custard apple)..... | Do. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Pseudococcus sacchari (mealy bug)..... | Saccharum officinarum (sugar cane) (3)..... | Do. |
| Pseudococcus virgatus (mealy bug)..... | Croton (2)..... | Do. |
| Pseudococcus sp. (mealy bug)..... | Caladium sp..... | Do. |
| Do..... | Citrus grandis (grapefruit)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| CUBA—continued. | | |
| Insects—Continued. | | |
| Pseudococcus sp. (mealy bug)..... | Saccharum officinarum (sugar cane) (2)..... | Florida. |
| Do..... | Tripsacum latifolium..... | District of Columbia. |
| Pseudoparlatoria parlatorioides (scale insect)..... | Croton..... | Florida. |
| Do..... | Unknown (2)..... | Do. |
| Pulvinaria pyriformis (scale insect)..... | Psidium guajava (guava)..... | Do. |
| Pyrophorus noctilucus (Elateridae)..... | Saccharum officinarum (sugar cane)..... | Do. |
| Rhizoglyphus longitarsis (mite)..... | Solanum tuberosum (potato)..... | Louisiana.* |
| Rhizoglyphus sp. (mite)..... | do..... | Do. |
| Saissetia hemisphaerica (hemispherical scale)..... | Bryophyllum sp..... | Florida. |
| Do..... | Citrus aurantifolia (lime)..... | Do. |
| Do..... | Cycas sp. (sago palm)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Unknown (2)..... | Do. |
| Saissetia oleae (black scale)..... | Amygdalus communis (almond)..... | Do. |
| Do..... | Mammea americana (mamey)..... | Do. |
| Do..... | Unknown..... | Do. |
| Solenopsis sp. (ant)..... | Dioscorea sp. (yam)..... | Do. |
| Targionia sacchari (scale insect)..... | Saccharum officinarum (sugar cane) (12)..... | Do. |
| Targionia sp. (scale insect)..... | Tulipa sp. (tulip)..... | Do. |
| Trialeurodes floridensis (white fly)..... | Mammea americana (mamey)..... | Do. |
| Diseases: | | |
| Actinomyces scabies..... | Solanum tuberosum..... | Louisiana.* |
| Basisporium gallarum..... | Tripsacum latifolium..... | District of Columbia. |
| Black melanose..... | Citrus sp. (4)..... | Florida. |
| Do..... | Citrus grandis..... | Do. |
| Cladosporium citri..... | do..... | Do. |
| Diplodia sp..... | Cocos nucifera..... | Do. |
| Melanconium sacchari..... | Saccharum officinarum (2)..... | Do. |
| Do..... | do..... | District of Columbia. |
| Puccinia polysora..... | Tripsacum latifolium..... | Do. |
| Thielaviopsis paradoxa..... | Saccharum officinarum (2)..... | Florida. |
| CURACAO ISLAND. | | |
| Insect: | | |
| Spermophagus sp. (Mylabridae)..... | Manzanula seeds..... | District of Columbia. |
| DENMARK. | | |
| Insects: | | |
| Agriotes lineatus (Elateridae)..... | Solanum tuberosum (potato)..... | New York City.* |
| Sciara sp. (Mycetophilidae)..... | Hyacinthus sp. (bulb)..... | Pennsylvania.* |
| DOMINICAN REPUBLIC. | | |
| Insects: | | |
| Catorama sp. (Anobiidae)..... | Divi-divi seed pods..... | Florida. |
| Mylabris obtectus (bean weevil)..... | do..... | Do. |
| DUTCH GUIANA. | | |
| Insects: | | |
| Aspidiotus lataniae (scale insect)..... | Citrus sinensis (orange)..... | District of Columbia. |
| Lepidosaphes beckii (purple scale)..... | do..... | Do. |
| Pseudaonidia articulatus (scale insect)..... | do..... | Do. |
| ECUADOR. | | |
| Insects: | | |
| Coccus hesperidum (soft brown scale)..... | Anthurium sp..... | Florida. |
| Mylabris sp. (Mylabridae)..... | Legume..... | District of Columbia. |
| Pulvinaria sp. (scale insect)..... | Anthurium sp..... | Florida. |
| Rhizoglyphus phylloxerae (mite)..... | Theobroma cacao (cocoa) (seed)..... | District of Columbia. |
| EGYPT. | | |
| Insects: | | |
| Chrysomphalus aonidum (Florida red scale)..... | Citrus sp..... | District of Columbia. |
| Pectinophora gossypiella (pink bollworm)..... | Gossypium sp. (cotton)..... | Pennsylvania.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| EGYPT—continued. | | |
| Insects—Continued. | | |
| Pheidole megacephala (ant)..... | Phoenix dactylifera (date palm)..... | California. |
| Phoenicococcus marlatti (scale insect)..... |do..... | District of Columbia. |
| Pseudococcus citri (citrus mealy bug)..... | Citrus sp..... | Do. |
| Rhizoglyphus sp. (mite)..... | Colocasia sp..... | Do. |
| ENGLAND. | | |
| Insects: | | |
| Agromyzid..... | Orchids..... | District of Columbia. |
| Anommatus 12-striatus (Colydiidae)..... | Paeonia sp. (peonies)..... | Do. |
| Anuraphis tulipae (Aphididae)..... | Iris sp..... | Do. |
| Anuraphis sp. (Aphididae)..... | Iris alberti..... | Do. |
| Aspidiotus lataniae (scale insect)..... | Palm..... | Pennsylvania.* |
| Aspidiotus spinosus (scale insect)..... | Haworthia glabrata..... | District of Columbia. |
| Do..... | Haworthia hybrida..... | Do. |
| Do..... | Haworthia rigida..... | Do. |
| Carpophilus hemipterus (Nitidulidae)..... | Iris tingitana..... | Do. |
| Carthartus advena (Cucujidae)..... |do..... | Do. |
| Cecidomyid..... | Iris sp. (roots)..... | Do. |
| Coccus hesperidum (soft brown scale)..... | Haworthia glabrata..... | Do. |
| Do..... | Haworthia hybrida..... | Do. |
| Do..... | Haworthia rigida..... | Do. |
| Curculionid..... | Polyanthus..... | Do. |
| Diaspis boisduvalii (scale insect)..... | Orchids (3)..... | Do. |
| Diaspis bromeliae (scale insect)..... | Orchids..... | Do. |
| Empytus cinctus (sawfly)..... | Manetti rose stocks (3)..... | Connecticut. |
| Do..... |do..... | Illinois. |
| Do..... | Manetti rose stocks..... | Indiana. |
| Gelechiid..... | Dianthus allwoodii..... | District of Columbia. |
| Hepialus lupulinus (Hepialidae)..... | Paeonia sp. (peony) (roots)..... | Do. |
| Hylemyia sp. (Anthomyiidae)..... | Carnation..... | Do. |
| Lecanium corni (European fruit Lecanium)..... | Corylus sp. (filbert) (trees)..... | Do. |
| Lepidosaphes conchiformis (scale insect)..... | Ficus sp. (fig)..... | Do. |
| Macrosiphum circumflexum (Aphididae)..... | Chrysanthemum sp. (seedling)..... | Do. |
| Macrosiphum sp. (Aphididae)..... | Packing about dahlias..... | Do. |
| Myzus persicae (Aphididae)..... | Dianthus allwoodii..... | Do. |
| Phytomyza affinis (Agromyzidae)..... | Chrysanthemum sp. (seedlings)..... | Do. |
| Pulvinaria floccifera (scale insect)..... | Renanthera imschootiana..... | Do. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Dahlia sp..... | Do. |
| Do..... | Iris sp. (roots)..... | Do. |
| Do..... | Lilium krameri..... | Do. |
| Rhizoglyphus rhizophagus (mite)..... | Narcissus sp. (bulbs) (2)..... | New York City.* |
| Rhizoglyphus sp. (mite)..... | Gladiolus sp. (bulbs)..... | District of Columbia. |
| Do..... | Paeonia sp. (peony) (roots)..... | Do. |
| Sciara sp. (Mycetophilidae)..... | Chrysanthemum sp. (seedlings)..... | Do. |
| Do..... | Iris sp. (roots)..... | Do. |
| Tipulid..... | In soil..... | Massachusetts. |
| Tortricid..... | Corylus sp. (filbert trees)..... | District of Columbia. |
| Do..... | Sphagnum (packing around Manetti rose stocks)..... | Pennsylvania.* |
| Tribolium ferrugineum (rust-red flour beetle)..... | Ricinus sp..... | District of Columbia. |
| Diseases: | | |
| Actinomyces scabies..... | Solanum tuberosum (2)..... | Louisiana.* |
| Bacterium tumefaciens..... | Rosa sp..... | Connecticut. |
| Botrytis cinerea..... | Iris sp. (Ossian-Shelford Giant)..... | District of Columbia. |
| Cephalothecium roseum..... | Dianthus allwoodii..... | Do. |
| Fusarium sp..... | Solanum tuberosum..... | Louisiana.* |
| Oospora pustulans..... | Solanum tuberosum (2)..... | Do. |
| Penicillium sp..... | Iris sp..... | District of Columbia. |
| Vermicularia dematium..... | Dianthus allwoodii..... | Do. |
| Verticillium sp..... | Iris sp..... | Do. |
| EUROPE. | | |
| Disease: | | |
| Coniosporium sp..... | Pyrus sp..... | New York.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| FINLAND. | | |
| Disease: | | |
| Puccinia phragmites..... | Phragmites communis..... | New York.* |
| FRANCE. | | |
| Insects: | | |
| Acronycta rumicis (Sorrel cutworm)..... | Mahaleb..... | Iowa. |
| Acronycta sp. (Noctuidae)..... | Spiraea vanhouttei..... | Massachusetts. |
| Agromyzid..... | Narcissus jonquilla (jonquils)..... | Virginia. |
| Do..... | Syringa sp. (roots)..... | District of Columbia. |
| Anuraphis tulipae (Aphididae)..... | Iris susiana (roots)..... | Do. |
| Do..... | Iris tingitana (2)..... | Do. |
| Do..... | Iris sp. (2)..... | Do. |
| Aporia crataegi (white tree pierid)..... | Malus sylvestris (apple stock)..... | Pennsylvania. |
| Aspidiotus hederae (ivy scale)..... | Phyllostachys mitis..... | District of Columbia. |
| Attagenus sp. (Dermestidae)..... | Gladiolus sp. (bulb)..... | Do. |
| Aulacaspis rosae (rose scale)..... | Manetti rose stocks..... | Ohio. |
| Do..... | Rosa sp. (rose)..... | District of Columbia. |
| Calophasia lunula (Noctuidae)..... | Cydonia oblonga (quince)..... | Pennsylvania. |
| Cathartus advena (foreign grain beetle)..... | Hyacinthus romanus (hyacinth)..... | District of Columbia. |
| Do..... | Stachys tuberosa..... | Do. |
| Cecidomyid..... | Iris susiana (roots)..... | Do. |
| Do..... | Lilium sp. (lily) (bulbs)..... | New York City.* |
| Do..... | Narcissus jonquilla (jonquils)..... | Virginia. |
| Do..... | Narcissus sp. (bulbs) (2)..... | Do. |
| Chionaspis howardi (scale insect)..... | Phyllostachys mitis..... | District of Columbia. |
| Chironomid..... | Narcissus jonquilla (jonquils)..... | Virginia. |
| Chrysomphalus dictyospermi (scale insect)..... | Jasminum grandiflora..... | District of Columbia. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Cucujid..... | Iris tingitana..... | Do. |
| Curculionid..... | Rhododendron davidsonianum..... | Do. |
| Drosophila melanogaster (Drosophilidae)..... | Iris tingitana..... | Do. |
| Drosophila sp. (Drosophilidae)..... | Iris sp. (roots)..... | Do. |
| Emphytus cinctus (sawfly)..... | Manetti rose stock (2)..... | Connecticut. |
| Do..... | Rosa sp. (rose)..... | Do. |
| Epidiaspis piricola (European pear scale)..... | Pyrus communis (pear)..... | Missouri. |
| Eriosoma lanigera (woolly aphis)..... | Malus sylvestris (apple)..... | Connecticut. |
| Eumerus strigatus (lesser bulb fly)..... | Iris sp. (roots)..... | District of Columbia. |
| Do..... | Narcissus jonquilla (jonquils)..... | Virginia. |
| Euproctis chrysorrhoea (brown-tail moth)..... | Cydonia oblonga (quince)..... | Illinois. |
| Do..... | Cydonia oblonga (quince) (2)..... | Iowa. |
| Do..... | Cydonia oblonga (quince)..... | Pennsylvania. |
| Do..... | Fruit stocks..... | Missouri. |
| Do..... | Malus sylvestris (apple) (3)..... | Iowa. |
| Do..... | Malus sylvestris (apple) (2)..... | Pennsylvania. |
| Do..... | Pyrus communis (pear)..... | New York. |
| Do..... | Rosa sp. (rose)..... | New York City.* |
| Hippelates flavipes (Oscinidae)..... | Molinia caerulea..... | District of Columbia. |
| Hoplodermis sp. (mite)..... | Narcissus sp. (bulbs)..... | Kentucky. |
| Do..... | Paeonia sp. (peony)..... | District of Columbia. |
| Laemophloeus minutus (Cucujidae)..... | Narcissus sp. (bulb)..... | Virginia. |
| Lecanium persicae (peach scale)..... | Berberis verruculosa..... | District of Columbia. |
| Do..... | do..... | Pennsylvania. |
| Do..... | Raphitamnus cyanocarpus..... | District of Columbia. |
| Lecanium sp. (scale insect)..... | Itea ilicifolia..... | Do. |
| Lepidosaphes ulmi (oyster-shell scale)..... | Cornus brachypoda variegata..... | Do. |
| Do..... | Cotoneaster acutifolia..... | Pennsylvania. |
| Do..... | Pachysandra terminalis..... | District of Columbia. |
| Do..... | Populus charkowiensis (cuttings)..... | Do. |
| Leucaspis bambusae (scale insect)..... | Bambusa sp. (bamboo supports for plant)..... | Do. |
| Liothrips (thrips)..... | Lilium sp. (bulbs)..... | New York City.* |
| Merodon equestris (Narcissus fly)..... | Narcissus jonquilla (jonquils)..... | Virginia. |
| Do..... | Narcissus sp..... | Do. |
| Mylabris cisti (Mylabridae)..... | Cytisus laburnum..... | New York City.* |
| Noctuid..... | Hordeum nudum (seed)..... | District of Columbia. |
| Notolophus gonostigma (Liparidae)..... | Fruit tree stocks..... | Indiana. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|-------------------------------|-----------------------|
| FRANCE—continued. | | |
| Insects—Continued. | | |
| Orthocladus sp. (Chironomidae) | Triticum aestivum (wheat) | District of Columbia. |
| Palorus depressus (Tenebrionidae) | Narcissus sp. (bulbs) | Virginia. |
| Papilio podalirius (Papilionidae) | Malus sylvestris (apple) | Iowa. |
| Porthetria dispar (gipsy moth) | Cydonia oblonga (quince) | New York City.* |
| Pseudococcus sp. (scale insect) | Jasminum grandiflora | District of Columbia. |
| Pyralid. | Mazzard stock | Pennsylvania. |
| Pyralis farinalis (Pyralidae) | Hyacinthus sp. | District of Columbia. |
| Do. | Narcissus sp. (bulbs) (2) | Virginia. |
| Do. | Paconia sp. (peony) (roots) | District of Columbia. |
| Rhizoglyphus hyacinthi (bulb mite) | Gladiolus gandavensis | Do. |
| Do. | Iris susiana (roots) | Do. |
| Do. | Lilium sp. (bulbs) | New York City.* |
| Do. | Narcissus sp. (bulbs) | District of Columbia. |
| Do. | do. | Kentucky. |
| Do. | do. | Mississippi. |
| Do. | Narcissus sp. (bulbs) (4) | Virginia. |
| Do. | Paconia sp. (peony) (roots) | District of Columbia. |
| Rhizoglyphus rhizophagus (mite) | Canna sp. | Do. |
| Do. | Hyacinthus sp. | Do. |
| Do. | Narcissus sp. (bulbs) | Do. |
| Do. | do. | Virginia. |
| Do. | Tulipa sp. (tulip) (bulbs) | District of Columbia. |
| Do. | (?) (Bulb) | Michigan. |
| Rhizoglyphus sp. (mite) | Iris sp. | District of Columbia. |
| Do. | Narcissus sp. (bulbs) | Florida. |
| Do. | Rosa sp. (rose) | District of Columbia. |
| Scatopse sp. (Bibionidae) | Hyacinthus sp. | Do. |
| Sciara sp. (Mycetophilidae) | Iris tingitana (2) | Do. |
| Do. | Narcissus jonquilla (jonquil) | Virginia. |
| Silvanus surinamensis (saw-toothed grain beetle) | Narcissus sp. (bulbs) | Do. |
| Sitodrepa panicea (Anobiidae) | Lonicera sp. (seed) | New York City.* |
| Tapinoma erraticum (ant) | Iris tingitana | District of Columbia. |
| Tenebrio molitor (Tenebrionidae) | Narcissus sp. (bulbs) | Virginia. |
| Do. | Paconia sp. (peony) (roots) | District of Columbia. |
| Tenebrionid. | Hyacinthus romanus | Do. |
| Tipulid. | Packing around bulbs | Do. |
| Tribolium sp. (Tenebrionidae) | Paconia sp. (peony) (roots) | Do. |
| Tydeus sp. (mite) | do. | Do. |
| Diseases: | | |
| Acrostalagmus cinnabarinus | Pyrus malus | New York.* |
| Alternaria sp. | Avena sativa | District of Columbia. |
| Do. | Triticum sp. | Do. |
| Aspergillus niger | Hyacinthus sp. | Do. |
| Bacterium tumefaciens | Malus sp. | Indiana. |
| Do. | do. | Pennsylvania. |
| Do. | Osmanthus Delavayi | District of Columbia. |
| Do. | Prunus cerasus | Pennsylvania. |
| Do. | Prunus mahaleb | Do. |
| Do. | Pyrus malus | New York.* |
| Do. | Pyrus sp. | Indiana. |
| Do. | do. | Ohio. |
| Do. | do. | Pennsylvania. |
| Do. | Rosa sp. | Connecticut. |
| Do. | Viburnum carlesi | District of Columbia. |
| Do. | Weigelia girondii | Do. |
| Botrytis cinerea | Clematis chrysocoma | Do. |
| Do. | Euonymus radicans | Do. |
| Do. | Leycesteria formosa | Do. |
| Do. | Viburnum phlebocitricum | Do. |
| Cladosporium herbarum | Avena sativa | Do. |
| Do. | Hordeum vulgare | Do. |
| Do. | Triticum sp. | Do. |
| Claviceps purpurea | Bromus praetensis | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| FRANCE—continued. | | |
| Diseases—Continued. | | |
| Colletotrichum sp | Bromelia sp | District of Columbia. |
| Coniosporium sp | Nidularium sp | Do. |
| Fusarium sp | Triticum sp | Do. |
| Heterodera radicola | Malus sp | Indiana. |
| Penicillium sp | Hyacinthus sp | District of Columbia. |
| Phomopsis coluteae | Colutea arborescens | Do. |
| Puccinia graminis | Avena sativa | Do. |
| Do | Avena sativa (packing straw) | Do. |
| Do | Hordeum vulgare | Do. |
| Do | Triticum sp. (5) | Do. |
| Tylenchus devastatrix | Hyacinthus sp | Do. |
| GERMAN EAST AFRICA. | | |
| Insects: | | |
| Apion sp. (Apionidae) | Vigna sinensis (cowpeas) | District of Columbia. |
| Calendra oryzae (rice weevil) | Arachis hypogaea (peanut) (seed) | Do. |
| Do | Bean (seed) | Do. |
| Do | Holcus sorghum | Do. |
| Ischnaspis longirostris (scale insect) | (?) | Do. |
| Laemophloeus pusillus (Cucujidae) | Annona sp | Do. |
| Mylabris chinensis (Mylabridae) | Vigna sinensis (cowpeas) | Do. |
| Mylabris sp. (Mylabridae) | Legume | Do. |
| GERMANY. | | |
| Insects: | | |
| Carpophilus dimidiatus (Nitidulidae) | Paeonia sp. (peony) (roots) | Pennsylvania.* |
| Eriococcus coccineus (scale insect) | Mamillaria krauseana | District of Columbia. |
| Laemophloeus pusillus (Cucujidae) | Paeonia sp. (peony) (roots) | Pennsylvania.* |
| Mylabris atomaria (Mylabridae) | Vicia sepium | District of Columbia. |
| Syntomaspis druparum (apple-seed chalcid) | Malus sylvestris (apple) (seed) (2) | New York City.* |
| Tribolium confusum (confused flour beetle) | Larix sp | Georgia. |
| Do | Paeonia sp. (peony) (roots) | Pennsylvania.* |
| Do | Picea sp. (spruce) | Georgia. |
| GIBRALTAR. | | |
| Insects: | | |
| Aspidiotus hederæ (ivy scale) | Citrus limonia (lemon) | Louisiana.* |
| Lepidosaphes beekii (purple scale) | do | Do. |
| GOLD COAST. | | |
| Insect: | | |
| Cathartus gemellatus (Cucujidae) | Zea mays (corn) | Florida. |
| GRAND CAYMAN ISLAND. | | |
| Insects: | | |
| Targionia hartii (scale insect) | Dioscorea sp. (yam) | Florida. |
| Targionia sacchari (scale insect) | Saccharum officinarum (sugar cane) | Do. |
| GREECE. | | |
| Insect: | | |
| Targionia sp. (scale insect) | Pistacia sp. (cuttings) | District of Columbia. |
| GUAM. | | |
| Insect: | | |
| Setomorpha sp. (Tineidae) | Pandanus fragrans | District of Columbia. |
| GUATEMALA. | | |
| Insects: | | |
| Agromyzid | "Bejuco blanco" | District of Columbia. |
| Aleurotrachelus trachoides (Aleyrodidae) | Chamaedorea sp | Do. |
| Anisolabis annulipes (earwig) | Musa sp. (banana) | Louisiana.* |
| Do | Persea gratissima (avocado) | District of Columbia. |
| Araecerus fasciculatus (coffee-bean weevil) | "Flor de Mico Flor" roja seeds | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| GUATEMALA—continued. | | |
| Insects—Continued. | | |
| Aspidiotus lataniae (scale insect)..... | Dahlia maxoni..... | District of Columbia. |
| Do..... | Persea gratissima (avocado)..... | Do. |
| Do..... | Persea schiedeana (3)..... | Do. |
| Aspidiotus sp. (scale insect)..... | Persea gratissima (avocado)..... | Do. |
| Do..... | (?)..... | Do. |
| Aulacaspis sp. (scale insect)..... | Persea gratissima (avocado)..... | Do. |
| Brachytarsus sp. (Platystomidae)..... | (?)..... | Do. |
| Calendra oryzae (rice weevil)..... | Persea gratissima (avocado) (seeds)..... | Do. |
| Do..... | Zea mays (corn)..... | Do. |
| Camponotus abdominalis (ant)..... | Musa sp. (banana)..... | Louisiana.* |
| Camponotus sp. (ant)..... | Pacayite..... | District of Columbia. |
| Carpophilus dimidiatus (Nitidulidae)..... | Duruche..... | Do. |
| Do..... | Persea gratissima (avocado) (seeds)..... | Do. |
| Cathartus advena (foreign grain beetle)..... | Zea mays (corn)..... | Do. |
| Cathartus cassiae (Cucujidae)..... | do..... | Do. |
| Catorama sp. (Anobiidae)..... | Duruche..... | Do. |
| Cecidomyid..... | Chamaedorea sp..... | Do. |
| Chionaspis pinifoliae (scale insect)..... | Pinus sp. (pine)..... | Do. |
| Chrysomphalus dictyospermi (scale insect)..... | Cocos nucifera (coconut palm)..... | Louisiana.* |
| Chrysomphalus sp. (scale insect)..... | Duruche..... | District of Columbia. |
| Coccotrypes sp. (Scolytidae)..... | Chamaedorea sp..... | Do. |
| Conotrachelus sp. (Curculionidae)..... | Persea gratissima (avocado) (seed)..... | Do. |
| Cryptorhynchid..... | (?)..... | Do. |
| Cryptorhynchus sp. (Curculionidae)..... | Duruche..... | Do. |
| Curculionid..... | Zea mays (corn)..... | Do. |
| Do..... | (?) (Seed)..... | Do. |
| Diaspis bromeliae (scale insect)..... | Persea gratissima (avocado)..... | Do. |
| Diaspis sp. (scale insect)..... | Chamaedorea sp..... | Do. |
| Drosophila melanogaster (Drosophilidae)..... | Musa sp. (banana)..... | Louisiana.* |
| Elaterid..... | Chamaedorea sp..... | District of Columbia. |
| Do..... | Pacayite..... | Do. |
| Eleodes sp. (Tenebrionidae)..... | "Chaparron Flor Amarilla" (seeds)..... | Do. |
| Eulophid..... | "Cola de pato"..... | Do. |
| Eurytoma sp. (Eurytomidae)..... | Ceanothus sp..... | Do. |
| Holcopena sp. (ant)..... | do..... | Do. |
| Howardia biclavus (mining scale)..... | Persea gratissima (avocado)..... | Do. |
| Hypothenemus sp. (Scolytidae)..... | (?)..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus sinensis (orange)..... | Do. |
| Lonchaea sp. (Sapromyzidae)..... | Chamaedorea sp..... | Do. |
| Macropygium reticulare (Pentatomidae)..... | Musa sp. (banana)..... | Louisiana.* |
| Metamasius sericeus (Calendrinae)..... | do..... | Do. |
| Metamasius sericeus carbonarius (Calendrinae)..... | do..... | Do. |
| Mylabris alticola (Mylabridae)..... | "Cola de pato"..... | District of Columbia. |
| Mylabris leucosomus (Mylabridae)..... | "Bejuco blanco"..... | Do. |
| Mylabris sp. (Mylabridae)..... | "Aripin"..... | Do. |
| Do..... | Dahlia maxoni..... | Do. |
| Do..... | (?) (Seed) (3)..... | Do. |
| Neuroctenus litigiosus (Aradidae)..... | Chamaedorea sp..... | Do. |
| Nitidulid..... | Chamaedorea sp. (seed)..... | Do. |
| Do..... | "Granadillo"..... | Do. |
| Oscinis sp. (Oscinidae)..... | Gramineae..... | Do. |
| Othnius sp. (Othniidae)..... | "Chaparron Flor amarilla"..... | Do. |
| Photuris sp. (Lampyridae)..... | Chamaedorea sp..... | Do. |
| Phycitid..... | "Plumajillo"..... | Do. |
| Prenolepis longicornis (ant)..... | Ananas sativus (pineapple)..... | Do. |
| Do..... | In packing..... | Do. |
| Do..... | Rubus sp..... | Do. |
| Prenolepis sp. (ant)..... | Musa sp. (banana)..... | Louisiana.* |
| Pseudaonidia articulatus (scale insect)..... | Cocos nucifera (coconut palm)..... | Do. |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Ananas sativus (pineapple)..... | District of Columbia. |
| Pseudoparlatoria ostreata (scale insect)..... | Pacayite..... | Do. |
| Psychoda sp. (Psychodidae)..... | Ananas sativus (pineapple)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| GUATEMALA—continued. | | |
| Insects—Continued. | | |
| Pyrallid..... | "Cola de pato"..... | District of Columbia. |
| Do..... | Erythrina sp..... | Do. |
| Do..... | Gramineae..... | Do. |
| Do..... | Pacaya..... | Do. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Chamaedorea sp..... | Do. |
| Do..... | Pacaya..... | Do. |
| Rhizoglyphus rhizophagus (mite)..... | Chamaedorea sp..... | Do. |
| Rhizoglyphus sp. (mite)..... | do..... | Do. |
| Rhyncolus (?) sp. (Curculionidae)..... | Persea gratissima (avocado) (seeds)..... | Do. |
| Saissetia hemisphaerica (hemispherical scale)..... | Chayota edulis (chayotes)..... | Do. |
| Silvanus sp. (Cucujidae)..... | Rubus sp..... | Do. |
| Spermophagus obscurus (Mylabridae)..... | "Vainillo"..... | Do. |
| Spermophagus sp. (Mylabridae)..... | (?)..... | Do. |
| Stelidota sp. (Nitidulidae)..... | Chamaedorea sp..... | Do. |
| Tenebrio sp. (Tenebrionidae)..... | In packing..... | Do. |
| Tetrapriocera tridens (Bostrichidae)..... | Swietenia mahogoni (mahogany)..... | California. |
| Tipulid..... | Chamaedorea sp..... | District of Columbia. |
| Trombidium sp. (mite)..... | do..... | Do. |
| Xyleborus granadensis (Scolytidae)..... | Swietenia mahogoni (mahogany)..... | California. |
| Disease: | | |
| Tubercularia sp..... | Persea gratissima..... | District of Columbia. |
| GUERNSEY ISLAND. | | |
| Insect: | | |
| Rhizoglyphus rhizophagus (mite)..... | (?) (Bulbs)..... | New York City.* |
| HAITI. | | |
| Insects: | | |
| Dactylopius confusus (scale insect)..... | Opuntia monilifera..... | District of Columbia. |
| Diaspis echinocacti cacti (scale insect)..... | Cactus (cuttings)..... | Do. |
| Diaspis echinocacti opuntiae (scale insect)..... | Cactus..... | Do. |
| Do..... | Nopulea cocchinellifera..... | Do. |
| Lycetus parallelipedus (powder post beetle)..... | In wooden chair..... | Do. |
| Monomorium pharaonis (ant)..... | do..... | Do. |
| Sinoxylon conigerum (Bostrychidae)..... | do..... | Do. |
| HAWAII. | | |
| Insects: | | |
| Carpophilus hemipterus (Nitidulidae)..... | Mangifera indica (mango)..... | California. |
| Carpophilus humeralis (Nitidulidae)..... | Wild tomato..... | District of Columbia. |
| Coccid..... | Manihot utilissima (cassava)..... | Do. |
| Monomorium floricola (ant)..... | Cocos nucifera (coconut palm)..... | California. |
| Mylabris chinensis (Mylabridae)..... | Cajanus indicus (pigeon pea)..... | District of Columbia. |
| Mylabris limbatus (Mylabridae)..... | Acacia sp. (seed)..... | California. |
| Mylabris obtectus (Mylabridae)..... | Ceratonía siliqua (algaroba beans)..... | District of Columbia. |
| Do..... | Jack beans..... | Do. |
| Mylabris prosopis (Mylabridae)..... | Ceratonía siliqua (algaroba)..... | Do. |
| Do..... | Prosopis chilensis..... | Do. |
| Mylabris sp. (Mylabridae)..... | Ceratonía siliqua (algaroba)..... | Do. |
| Omphisa anastomosalis (Pyrallidae)..... | Ipomoea batatas (sweet potato)..... | Do. |
| Pheidole megacephala (ant)..... | Musa sp. (banana)..... | California. |
| Pheidole sp. (ant)..... | do..... | Do. |
| Prenolepis sp. (ant)..... | Cocos nucifera (coconut palm)..... | Do. |
| Psammoeocus desjardinsi (Cucujidae)..... | Musa sp. (banana)..... | Do. |
| Psammoeocus insularis (Cucujidae)..... | do..... | Do. |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Ananas sativus (pineapple)..... | District of Columbia. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Colocasia esculenta..... | Do. |
| Saissetia nigra (scale insect)..... | Manihot utilissima (cassava)..... | Do. |
| Sciara sp. (Mycetophilidae)..... | Colocasia esculenta..... | Do. |
| Tetramorium caespitum (ant)..... | Musa sp. (banana)..... | California. |
| Tetranychid..... | Hibiscus sp..... | Do. |
| Disease: | | |
| Aspergillus flavus..... | Sandoricum indicum..... | District of Columbia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| HOLLAND. | | |
| Insects: | | |
| Agriotes sp. (Elateridae)..... | In soil..... | District of Columbia. |
| Aleyrodes sp. (white fly)..... | Azalea ledifolia..... | Do. |
| Amphorophora sp. (Aphididae)..... | Trollius sp..... | Do. |
| Aphid..... | Acer palmatum (Japan maple)..... | Massachusetts. |
| Apiochaeta sp. (Phoridae)..... | Hyacinthus sp. (bulbs)..... | New York City.* |
| Do..... | Iris sp. (roots)..... | District of Columbia. |
| Athous sp. (Elateridae)..... | Buxus sp. (boxwood)..... | Do. |
| Bibio sp. (Bibionidae)..... | Paeonia sp. (peony) (roots)..... | Do. |
| Bombus sp. (Apiadae)..... | (?)..... | Massachusetts. |
| Cacoecia podana (Tortricidae)..... | Rosa rugosa..... | New York City.* |
| Cathartus advena (foreign grain beetle)..... | Bulbs..... | Connecticut. |
| Do..... | Iris sp. (bulbs)..... | District of Columbia. |
| Do..... | Narcissus sp. (bulbs)..... | Mississippi. |
| Cecidomyia sp. (Cecidomyiidae)..... | Aristolochia siphon..... | District of Columbia. |
| Cecidomyid..... | do..... | Do. |
| Do..... | Bulbs (2)..... | Do. |
| Do..... | Narcissus sp. (bulbs)..... | Michigan. |
| Do..... | do..... | Rhode Island. |
| Do..... | Tritoma rupa (roots)..... | District of Columbia. |
| Curculionid..... | Herbaceous plants..... | Do. |
| Do..... | In soil (2)..... | New York.* |
| Elaterid..... | Paeonia sp. (roots)..... | District of Columbia. |
| Do..... | Rhododendron sp..... | Massachusetts. |
| Do..... | Soil..... | Do. |
| Emphytus cinctus (sawfly)..... | Manetti rose stocks (2)..... | Connecticut. |
| Empoasca sp. (Jassidae)..... | Picea excelsa nidiformis..... | District of Columbia. |
| Eumerus strigatus (lesser bulb fly)..... | Bulb..... | New York City.* |
| Do..... | Narcissus sp. (bulb) (2)..... | Do. |
| Forficula auricularia (earwig)..... | Evergreen shrubs..... | District of Columbia. |
| Gelechiid..... | Buckwheat chaff used as packing around tulip bulbs. | Massachusetts.* |
| Do..... | Iris sp. (bulbs)..... | New York City.* |
| Gracilaria azaleella (Tineidae)..... | Azalea malvatica..... | District of Columbia. |
| Homoglaea hircina (Noctuidae)..... | Convallaria sp..... | New York City.* |
| Lamproid..... | In soil..... | Massachusetts. |
| Lasius flavus (ant)..... | Rhododendron (roots)..... | Do. |
| Lecanium coryli (scale insect)..... | Rosa sp. (rose)..... | District of Columbia. |
| Lepidosaphes ulmi (oyster-shell scale)..... | Buxus sp. (boxwood)..... | Massachusetts. |
| Lygus pabulinus (Miridae)..... | Rosa rugosa..... | New York City.* |
| Merodon equestris (narcissus fly)..... | Bulb..... | Colorado. |
| Do..... | Bulb (3)..... | District of Columbia. |
| Do..... | Bulb..... | Nebraska. |
| Do..... | Narcissus sp. (bulb) (2)..... | District of Columbia. |
| Do..... | Narcissus sp. (bulb)..... | Michigan. |
| Do..... | do..... | Rhode Island. |
| Do..... | do..... | Washington. |
| Mylabris quadrimaculatus (four-spotted bean weevil)..... | Hyacinthus sp. (bulbs)..... | District of Columbia. |
| Myrmica brevinodis (ant)..... | In soil..... | Do. |
| Noctuid..... | Retinispora sp..... | Massachusetts. |
| Do..... | Soil..... | New York.* |
| Oecophorid..... | Iris sp. (bulb)..... | New York City.* |
| Do..... | Oxalis cernua plena (Bermuda butter- cup)..... | District of Columbia. |
| Olethreutid..... | Lupinus sp..... | Do. |
| Otiorynchus sulcatus (Otiorynchidae)..... | Buxus sp. (boxwood)..... | Massachusetts. |
| Do..... | Convallaria majalis (lily of the valley)..... | District of Columbia. |
| Do..... | Packing and soil..... | Do. |
| Do..... | Rhododendron sp..... | Massachusetts. |
| Palorus ratzeburgi (Tenebrionidae)..... | Narcissus sp. (bulbs)..... | Mississippi. |
| Pectinophora gossypiella (pink bollworm)..... | Gossypium sp. (cotton)..... | Pennsylvania.* |
| Pentatomid..... | Retinispora sp..... | Massachusetts. |
| Pyrallid..... | Buckwheat hulls used as packing..... | Pennsylvania.* |
| Pyrallis farinalis (Pyrallidae)..... | Packing..... | Massachusetts. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| HOLLAND—continued. | | |
| Insects—Continued. | | |
| Rhizoglyphus hyacinthi (bulb mite)..... | Bulbs..... | Colorado. |
| Do..... | Bulbs (3)..... | District of Columbia. |
| Do..... | Bulb..... | New York City.* |
| Do..... | Dahlia sp. (roots)..... | District of Columbia. |
| Do..... | Eremurus robustus..... | Do. |
| Do..... | Eremurus superbus..... | Do. |
| Do..... | Galanthus nivalis (bulbs)..... | Do. |
| Do..... | Gladiolus sp. (bulbs) (4)..... | Do. |
| Do..... | Gladiolus sp. (bulbs)..... | New York City.* |
| Do..... | Hyacinthus sp. (bulbs)..... | District of Columbia. |
| Do..... | Iris hispanica..... | Do. |
| Do..... | Iris pumila..... | Do. |
| Do..... | Iris sp. (7)..... | Do. |
| Do..... | Muscaria botryoides album..... | Do. |
| Do..... | Narcissus sp. (bulbs)..... | New York City.* |
| Do..... | do..... | Rhode Island. |
| Do..... | Paeonia officinalis mutabilis plena..... | District of Columbia. |
| Do..... | Paeonia sp. (peony)..... | Do. |
| Do..... | Scilla sp. (bulbs)..... | Do. |
| Do..... | Tigridia sp. (tiger flower)..... | Do. |
| Do..... | Trollius sp..... | Do. |
| Do..... | Tulipa sp. (bulbs)..... | Do. |
| Rhizoglyphus longitarsis (mite)..... | Rhododendron..... | Do. |
| Rhizoglyphus rhizophagus (mite)..... | Bulbs..... | Do. |
| Do..... | Bulbs (2)..... | Texas. |
| Do..... | Iris sp..... | District of Columbia. |
| Do..... | Narcissus sp. (bulbs)..... | Michigan. |
| Do..... | Narcissus sp. (bulbs) (2)..... | New York City.* |
| Do..... | Narcissus sp. (bulbs)..... | Washington. |
| Do..... | Scilla sibirica..... | District of Columbia. |
| Do..... | Tulipa sp. (bulbs)..... | Kentucky. |
| Do..... | do..... | Pennsylvania.* |
| Rhizoglyphus sp. (mite)..... | Bravea geminiflora..... | District of Columbia. |
| Do..... | Dahlia sp..... | Do. |
| Do..... | Montbretia sp..... | Do. |
| Do..... | Paeonia officinalis rubra..... | New York.* |
| Do..... | Paeonia officinalis tenuifolia..... | Do. |
| Do..... | Paeonia sp. (roots)..... | District of Columbia. |
| Sciara sp. (Mycetophilidae)..... | Bulbs..... | Texas. |
| Do..... | Paeonia sp. (2)..... | District of Columbia. |
| Do..... | Soil..... | New York.* |
| Tarsonemus sp. (mite)..... | Narcissus sp. (bulbs) (2)..... | Michigan. |
| Tenebrio molitor (meal worm)..... | Ansmatheca cruenta..... | District of Columbia. |
| Do..... | Hyacinthus sp. (bulb)..... | Do. |
| Do..... | Iris filifolia..... | Do. |
| Do..... | Iris sp. (bulbs)..... | Do. |
| Do..... | Packing..... | Do. |
| Do..... | Tigridia sp. (tiger flower)..... | Do. |
| Tenebrio sp. (Tenebrionidae)..... | Buckwheat chaff..... | Connecticut. |
| Tetranychus telarius (red spider)..... | Aristolochia siphio..... | District of Columbia. |
| Thrips sp..... | Hyacinthus sp. (bulbs)..... | Illinois. |
| Tipulid..... | Soil..... | New York.* |
| Tortricid..... | Rosa rugosa..... | New York City.* |
| Diseases: | | |
| Bacterium tumefaciens..... | Malus sylvestris..... | Missouri. |
| Do..... | Paeonia officinalis..... | California. |
| Do..... | Rosa sp..... | Do. |
| Do..... | do..... | Connecticut. |
| Do..... | Rosa sp. (2)..... | District of Columbia. |
| Botrytis cinerea..... | Aristolochia siphio..... | Do. |
| Botrytis parasitica..... | Muscari sp..... | Do. |
| Do..... | Narcissus sp. (5)..... | Do. |
| Do..... | Tulipa sp..... | Do. |
| Fusarium sp..... | Solanum tuberosum..... | Louisiana.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| HOLLAND—continued. | | |
| Diseases—Continued. | | |
| Penicillium sp..... | Camassia leichtlinii..... | District of Columbia. |
| Do..... | Muscari sp..... | Do. |
| Do..... | Narcissus sp. (5)..... | Do. |
| Pestalozzia guepini..... | Rhododendron sp..... | Do. |
| Sclerotium sp..... | Iris tingitana..... | Do. |
| INDIA. | | |
| Insects: | | |
| Araecerus fasciculatus (coffee-bean weevil)..... | Zea mays (corn) (2)..... | District of Columbia. |
| Aspidiotus sp. (scale insect)..... | Citrus sp..... | Do. |
| Calendra oryzae (rice weevil)..... | Arzadirachta indica..... | Do. |
| Do..... | Holcus sorghum (seed) (5)..... | Do. |
| Do..... | Saraca indica (seed)..... | Do. |
| Do..... | Zea mays (corn) (5)..... | Do. |
| Chrysomphalus aurantii (California red scale)..... | Citrus grandis (pomelo)..... | Do. |
| Do..... | Undetermined plant..... | Do. |
| Curculionid..... | Quercus griffithii..... | Do. |
| Eurytoma sp. (Chalcididae)..... | Sesbania aculiata..... | Do. |
| Laemophloeus pusillus (Cucujidae)..... | Zea mays (corn) (3)..... | Do. |
| Lecanium sp. (scale insect)..... | Malus sylvestris (apple)..... | Do. |
| Lophocateres pusillus (Siamese grain beetle)..... | Zea mays (corn) (2)..... | Do. |
| Mylabrid..... | Albizia lebbek..... | Do. |
| Mylabris quadrimaculatus (four-spotted bean weevil)..... | Glycine soja (soy bean)..... | Do. |
| Mylabris sp. (Mylabridae)..... | Cyamopsis seed..... | Do. |
| Do..... | Cyamopsis-Gowar Makhnisa seed..... | Do. |
| Do..... | Cyamopsis-Gowar Satia..... | Do. |
| Do..... | Guwar Makhaniya seed..... | Do. |
| Do..... | Guwar Sotiya seed..... | Do. |
| Do..... | Tephrosia candida (seed)..... | Do. |
| Parlatoria brasiliensis (scale insect)..... | Undetermined plant..... | Do. |
| Pseudococcus virgatus (mealy bug)..... | Mangifera indica (mango)..... | Do. |
| Do..... | Undetermined plant..... | Do. |
| Rhizoglyphus sp. (mite)..... | Amorphophallus campanulatus..... | Do. |
| Rhizopertha dominica (lesser grain borer)..... | Coix sp..... | Do. |
| Do..... | Zea mays (corn) (2)..... | Do. |
| Sciara sp. (Mycetophilidae)..... | Zea mays (corn)..... | Do. |
| Silvanus pusillus (Cucujidae)..... | do..... | Do. |
| Silvanus surinamensis (saw-toothed grain beetle)..... | Gossypium sp. (cotton)..... | New York City.* |
| Do..... | Zea mays (corn) (2)..... | District of Columbia. |
| Tribolium confusum (confused flour beetle)..... | Gossypium sp. (seed)..... | New York City.* |
| Tribolium ferrugineum (rust-red flour beetle)..... | Zea mays (corn) (4)..... | District of Columbia. |
| Diseases: | | |
| Pseudomonas citri..... | Citrus sp..... | Do. |
| Ustilago isilematidis..... | Iseilema anthophoroides..... | Do. |
| IRELAND. | | |
| Insects: | | |
| Agriotes sp. (Elateridae)..... | Soil..... | District of Columbia. |
| Emphytus cinctus (sawfly)..... | Manetti rose stock..... | Do. |
| Do..... | Manetti rose stock (2)..... | Pennsylvania |
| Macrosiphum rosae (Aphid)..... | Rosa sp..... | District of Columbia. |
| ISLE OF PINES. | | |
| Insects: | | |
| Aleurothrixus howardi (woolly white fly)..... | Citrus grandis (grapefruit)..... | Florida. |
| Aleyrodid..... | Citrus sp..... | Do. |
| Anastrepha fraterculus (fruit fly)..... | Psidium guajava (guava)..... | Do. |
| Aspidiotus destructor (scale insect)..... | Amygdalus communis (almond)..... | Do. |
| Do..... | Cocos nucifera (coconut palm) (2)..... | Do. |
| Aspidiotus orientalis (scale insect)..... | Cocos nucifera (coconut palm)..... | Do. |
| Aspidiotus subsimilis anonae (scale insect)..... | Bobug tree..... | Do. |
| Chrysomphalus aonidum (Florida red scale)..... | Citrus grandis (grapefruit) (2)..... | Do. |
| Cylas formicarius (sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| ISLE OF PINES—continued. | | |
| Insects—Continued. | | |
| Hemichionaspis minor (scale insect)..... | Cocos nucifera (coconut palm)..... | Florida. |
| Hemichionaspis sp. (scale insect)..... | Bobug tree..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus aurantifolia (lime)..... | Do. |
| Do..... | Citrus grandis (grapefruit) (6)..... | Do. |
| Do..... | Citrus sinensis (orange) (2)..... | Do. |
| Do..... | Citrus sp. (4)..... | Do. |
| Parlatoria pergandei (chaff scale)..... | Citrus grandis (grapefruit)..... | Do. |
| Parlatoria sp. (scale insect)..... | Citrus sp..... | Do. |
| Pseudonidia articulatus (rufous scale)..... | do..... | Do. |
| Pseudonidia tessarata (scale insect)..... | Unknown tree..... | Do. |
| Targonia sacchari (scale insect)..... | Saccharum officinarum (sugar cane)..... | Do. |
| ITALY. | | |
| Insects: | | |
| Aspidiotus hederæ (ivy scale)..... | Citrus limonia (lemon)..... | New York City.* |
| Aulacaspis rosæ (rose scale)..... | Rosa sp. (rose)..... | Massachusetts.* |
| Epidiaspis piricola (European pear scale)..... | Pyrus sorbus..... | District of Columbia. |
| Florinia floriniae (scale insect)..... | Camellia sp..... | Massachusetts.* |
| Do..... | Palm..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus limonia (lemon)..... | Louisiana.* |
| Parlatoria pergandei (chaff scale)..... | do..... | Do. |
| Parlatoria zizyphi (scale insect)..... | do..... | Do. |
| Pyrausta nubilalis (Pyralidae)..... | Panicum miliaceum (broom corn)..... | New York City.* |
| Saissetia hemisphaerica (hemispherical scale)..... | Fern..... | Pennsylvania.* |
| Sitotroga cerealella (Angoumois grain moth)..... | Triticum aestivum (wheat)..... | New York City.* |
| Tribolium ferrugineum (rust-red flour beetle)..... | do..... | Do. |
| ITALIAN SOMALILAND. | | |
| Insect: | | |
| Pyralid..... | Cordeuxia edulis..... | District of Columbia. |
| JAMAICA. | | |
| Insects: | | |
| Aspidiotus lataniae (scale insect)..... | Seed pods..... | Florida. |
| Chrysomphalus aonidum (Florida red scale)..... | Musa sp. (banana)..... | Louisiana.* |
| Chrysomphalus dictyospermi (scale insect)..... | Seed pods..... | Florida. |
| Cylas formicarius (sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | New York City.* |
| Drosophila ampelophila (Drosophilidae)..... | Mangifera indica (mango)..... | Louisiana.* |
| Hemipteron..... | Dioscorea sp. (yam)..... | New York City.* |
| Do..... | Ipomoea batatas (sweet potato)..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus sinensis (orange)..... | Louisiana.* |
| Mylabris sp. (Mylabridae)..... | Caesalpinia coriaria (beans)..... | Do. |
| Olethreutid..... | Persea gratissima (avocado)..... | Do. |
| Palaeopus costicollis (Curculionidae)..... | Dioscorea sp. (yam)..... | Florida. |
| Palaeopus dioscoreae (Curculionidae)..... | Dioscorea sp. (yam) (2)..... | Do. |
| Parallelodiplosis cattleyae (Cattleya midge)..... | Orchid. (roots)..... | Louisiana.* |
| Saissetia oleae (black scale)..... | Seed pods..... | Florida. |
| Sitotroga cerealella (Angoumois grain moth)..... | Holcus sorghum..... | District of Columbia. |
| Solenopsis geminata (ant)..... | Dioscorea sp. (yam)..... | New York City.* |
| Do..... | Ipomoea batatas (sweet potato)..... | Do. |
| Solenopsis sp. (ant)..... | Cyathea elegans..... | District of Columbia. |
| JAPAN. | | |
| Insects: | | |
| Anisolabis annulipes (earwig)..... | Lycoris squamigera..... | District of Columbia. |
| Aristotelia sp. (Gelechiidae)..... | Aspidistra sp..... | California. |
| Aspidiotus perniciosus (San Jose scale)..... | (?) (Cuttings)..... | District of Columbia. |
| Aspidiotus sp. (scale insect)..... | Citrus sinensis (orange)..... | Washington.* |
| Aulacaspis pentagona (West Indian peach scale)..... | Pyrus sp. (pears)..... | Do. |
| Carpophilus hemipterus (Nitidulidae)..... | Amorphophallus sp..... | District of Columbia. |
| Cathartus advena (foreign grain beetle)..... | do..... | Do. |
| Do..... | Lycoris squamigera..... | Do. |
| Cecidomyid..... | do..... | Do. |
| Ceroplastes ceriferus (wax scale)..... | Acer sp. (maple)..... | Washington.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--|-----------------------|
| JAPAN—continued. | | |
| Insects—Continued. | | |
| Chionaspis sp. (scale insect)..... | "Celtis-like tree"..... | District of Columbia. |
| Chrysomphalus aonidum (Florida red scale)..... | Aspidistra sp..... | California. |
| Chrysomphalus aurantii (California red scale)..... | Citrus nobilis (mandarin orange)..... | Oregon.* |
| Diaspis pentagona (West Indian peach scale)..... | Salix sp..... | District of Columbia. |
| Elaterid..... | (?)..... | Massachusetts. |
| Glyphodes persicalis (Pyrilidae)..... | Buxus sp. (box)..... | Do. |
| Hemichionaspis aspidistrae (Aspidistra scale)..... | Aspidistra sp..... | California. |
| Do..... | Citrus nobilis (mandarin orange)..... | Oregon.* |
| Do..... | Citrus sinensis (orange)..... | Washington.* |
| Do..... | Citrus sp..... | Maryland.* |
| Do..... | Liriope sp..... | District of Columbia. |
| Histiostoma rostro-serratum (mite)..... | Amorphophallus sp..... | Do. |
| Lachnus sp. (aphid)..... | Cryptomeria japonica (cedar)..... | Florida. |
| Laemophloeus pusillus (Cucujidae)..... | Amorphophallus sp..... | District of Columbia. |
| Lasioderma serricorne (cigarette beetle)..... | Nicotiana tabacum (tobacco)..... | Louisiana.* |
| Lasius niger (ant)..... | Viburnum sp..... | Massachusetts. |
| Lepidosaphes conchiformis (scale insect)..... | Pyrus communis (pear)..... | Washington.* |
| Lepidosaphes gloverii (Glover's scale)..... | Citrus nobilis (mandarin orange)..... | Oregon.* |
| Do..... | do..... | Washington.* |
| Do..... | Citrus sinensis (orange)..... | Florida. |
| Do..... | Citrus sp..... | Maryland.* |
| Lepidosaphes sp. (scale insect)..... | do..... | Washington.* |
| Do..... | Pyrus sp. (pear)..... | District of Columbia. |
| Do..... | Salix sp..... | Do. |
| Monomorium pharaonis (ant)..... | Castanea sp. (chestnut)..... | Washington.* |
| Mycetaea hirta (Mycetaeidae)..... | Amorphophallus sp..... | District of Columbia. |
| Mylabris chinensis (Mylabridae)..... | Legumes..... | Do. |
| Do..... | Vigna sinensis (cowpea)..... | Do. |
| Olethreutid..... | Rubiaceae (seed and fruit)..... | Do. |
| Parlatoria pergandei (chaff scale)..... | Citrus nobilis (satsuma orange)..... | Do. |
| Do..... | Citrus sinensis (orange)..... | Florida. |
| Do..... | do..... | Washington.* |
| Phenacoccus sp. (scale insect)..... | Azalea benigni..... | District of Columbia. |
| Phylloxera sp. (Aphididae)..... | Salix sp..... | Do. |
| Plodia interpunctella (Indian meal moth)..... | Juglans sp. (walnut sacks)..... | California. |
| Pristomyrmex japonicus (ant)..... | Azalea indica ledifolium leucanthum..... | District of Columbia. |
| Pseudaonidia duplex (scale insect)..... | Citrus nobilis (satsuma orange)..... | Do. |
| Do..... | Citrus sp..... | Maryland.* |
| Pseudaonidia paeoniae (scale insect)..... | Azalea amoena kirishima..... | District of Columbia. |
| Do..... | Azalea benigni..... | Do. |
| Do..... | Azalea takasago..... | Do. |
| Do..... | Azalea yayegiri..... | Do. |
| Pseudaonidia trilobitiformis (scale insect)..... | Citrus aurantifolia (lime)..... | Washington.* |
| Do..... | Citrus nobilis (mandarin orange)..... | Do. |
| Do..... | Citrus sp. (orange)..... | Do. |
| Pseudococcus sp. (mealy bug)..... | Azalea sp..... | California. |
| Pseudoponera sauteri (ant)..... | Amorphophallus sp..... | District of Columbia. |
| Pyrilid..... | do..... | Do. |
| Pyrilis farinalis (Pyrilidae)..... | do..... | Do. |
| Rhizoglyphus hyacinthi (bulb mite)..... | Lilium formosum..... | Minnesota. |
| Do..... | do..... | Utah. |
| Do..... | Lilium sp..... | New York City.* |
| Do..... | Lycoris squamigera..... | District of Columbia. |
| Rhizoglyphus sp. (mite)..... | Amorphophallus sp..... | Do. |
| Do..... | Grass..... | Do. |
| Scepticus insularis (Otiiorhynchidae)..... | Azalea leucanthum..... | Do. |
| Spermophagus sp. (Mylabridae)..... | Beans..... | Do. |
| Tenebrionid..... | Scirpus tuberosus..... | Do. |
| Tortricid..... | Amorphophallus sp..... | Do. |
| Do..... | Smilax sp. (leaves)..... | Do. |
| Tribolium ferrugineum (rust-red flour beetle)..... | Beans..... | Louisiana.* |
| Tribolium sp. (Tenebrionidae)..... | Panicum sp. (seed)..... | District of Columbia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|---|-----------------------|
| JAPAN—continued. | | |
| Diseases: | | |
| Colletotrichum omnivorum..... | Aspidistra sp..... | California. |
| Penicillium digitatum..... | Citrus nobilis..... | Washington.* |
| Pestalozzia sp..... | Pyrus sp..... | Do. |
| Rhizoctonia sp..... | Castanea sp..... | Do. |
| JAVA. | | |
| Insects: | | |
| Anthribid..... | Ptychantra glauca (seed)..... | District of Columbia. |
| Araecerus fasciculatus (coffee-bean weevil)..... | Colocasia sp..... | Do. |
| Do..... | Oncosperena filamentosa (seed)..... | Do. |
| Do..... | Phoenix reclinata (2)..... | Do. |
| Do..... | Rhapalabla lexandrae (seed)..... | Do. |
| Do..... | Tephrosia candida (seed)..... | Do. |
| Coccotrypes sp. (Scolytidae)..... | Licuala rumphii (seed)..... | Do. |
| Do..... | Neuga schefferiana (seed)..... | Do. |
| Do..... | Phoenix reclinata (seed)..... | Do. |
| Halimococcus sp. (scale insect)..... | Pandanus tectorius..... | Do. |
| Haptoncus luteolus (Nitidulidae)..... | Canarium indicum..... | Do. |
| Plodia interpunctella (Indian meal moth)..... | do..... | Do. |
| Rhizoglyphus longitarsis (mite)..... | Colocasia sp..... | Do. |
| Rhizoglyphus sp. (mite)..... | Doerian seed..... | Do. |
| Do..... | Lansium domesticum..... | Do. |
| Septomorpha insectella (Tineidae)..... | Caryota rumphiana (seed)..... | Do. |
| Do..... | Mangifera indica var..... | Do. |
| Do..... | Mangifera indica golek..... | Do. |
| KOREA. | | |
| Insect: | | |
| Rhizoglyphus sp. (mite)..... | Allium sativum (garlic)..... | District of Columbia. |
| MALTA. | | |
| Insect: | | |
| Mylabris sp. (Mylabridae)..... | Hedysarum cononarum (sulla) (2)..... | District of Columbia. |
| MEXICO. | | |
| Insects: | | |
| Anastrepha sp. (Trypetidae)..... | Casimiroa edulis (zapote)..... | Texas.* |
| Aspidiotus orientalis (scale insect)..... | Cocos nucifera (coconut palm)..... | Florida. |
| Baridiid..... | Amaryllis sp..... | District of Columbia. |
| Blapstinus sp. (Tenebrionidae)..... | Gossypium sp. (cotton)..... | Do. |
| Calendra linearis (Calendrinae)..... | Tamarindus indica (tamarind)..... | Texas.* |
| Calendra oryzae (rice weevil)..... | Amaryllis sp. (bulbs)..... | District of Columbia. |
| Cathartus advena (foreign grain beetle)..... | do..... | Do. |
| Chionaspis citri (scale insect)..... | Citrus sp..... | Florida. |
| Chrysomphalus aurantii (California red scale)..... | Citrus grandis (pomelo)..... | Arizona.* |
| Do..... | Citrus limonia (lemon) (2)..... | Do. |
| Do..... | "Toroncho"..... | Do. |
| Conotrachelus perseae (Curculionidae)..... | Persea gratissima (avocado) (3)..... | Texas.* |
| Conotrachelus sp. (Curculionidae)..... | Persea gratissima (avocado)..... | Do. |
| Do..... | Persea sp. (Mexican avocado)..... | Do. |
| Cylas formicarius (sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | Florida. |
| Diaspis echinocacti cacti (scale insect)..... | Cactus..... | District of Columbia. |
| Diaspis echinocacti var. (scale insect)..... | Mammillaria sp..... | Do. |
| Diatraea sp. (Pyralidae)..... | Saccharum officinarum (sugar cane)..... | Florida. |
| Dysdercus suturellus (Pyrrhocoridae)..... | Grass..... | District of Columbia. |
| Ephestia sp. (Pyralidae)..... | Quercus sp. (acorn)..... | California. |
| Do..... | Zea mays (corn)..... | Arizona.* |
| Gelechioid..... | Citrus sinensis (orange)..... | Louisiana.* |
| Hemichionaspis minor (scale insect)..... | Cocos nucifera (coconut palm)..... | Do. |
| Lepidosaphes beekii (purple scale)..... | Citrus grandis (grapefruit)..... | Florida. |
| Lepidosaphes gloverii (Glover's scale)..... | Citrus sinensis (orange)..... | Do. |
| Do..... | do..... | Louisiana.* |
| Monomorium pharaonis (ant)..... | Dioscorea sp. (yam)..... | California. |
| Mylabris sp. (Mylabridae)..... | Prosopis juliflora (mesquit)..... | Do. |
| Parlatoria pergandei (chaff scale)..... | Citrus grandis (grapefruit)..... | Louisiana.* |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|--------------------------------------|-----------------------|
| MEXICO—continued. | | |
| Insects—Continued. | | |
| Pectinophora gossypiella (pink bollworm)..... | Gossypium sp. (cotton) (2)..... | Texas.* |
| Do..... | In cotton pillow..... | Do. |
| Pseudanidia articulatus (rufous scale)..... | Citrus aurantifolia (lime)..... | Louisiana.* |
| Do..... | Citrus sinensis (orange) (2)..... | Florida. |
| Pseudorhianus n. sp. (Curculionidae)..... | Amaryllis sp. (bulb)..... | District of Columbia. |
| Pyralid..... | Hicoria pecan (pecan)..... | Texas.* |
| Rhizoglyphus hyacinthi (bulb mite)..... | Amaryllis sp. (bulbs)..... | District of Columbia. |
| Rhizoglyphus phylloxerae (mite)..... | Zea mays (corn)..... | Do. |
| Silvanus vulgaris (Cucujidae)..... | Ananas sativus (pineapple)..... | Do. |
| Silvanus sp. (Cucujidae)..... | Amaryllis sp. (bulbs)..... | Do. |
| Sitotroga cerealella (Angoumois grain moth)..... | Zea mays (corn)..... | Arizona.* |
| Tenebrionid..... | Gossypium sp. (cottonseed)..... | Louisiana.* |
| Tetraleurodes acaciae (white fly)..... | "Chilicote"..... | District of Columbia. |
| Tetraleurodes sp. (white fly)..... | Unknown plant..... | Do. |
| Tetramorium guineense (ant)..... | Papania..... | Louisiana.* |
| Tribolium confusum (confused flour beetle)..... | Gossypium sp. (cottonseed)..... | District of Columbia. |
| Trogoderma sp. (Dermestidae)..... | Gossypium sp. (cotton) (2)..... | Texas.* |
| Trogositid..... | Gossypium sp. (cotton)..... | Louisiana.* |
| Diseases: | | |
| Colletotrichum gloeosporioides..... | Citrus sp..... | Florida. |
| Diplodia sp..... | Cactus sp..... | District of Columbia. |
| Macrosporium sp..... | do..... | Do. |
| Pestalozzia sp..... | do..... | Do. |
| Phyllosticta sp..... | Citrus aurantifolia..... | Louisiana.* |
| Do..... | Citrus sinensis..... | Texas. |
| Puccinia hibisciata..... | Gossypium sp..... | Coahuila. |
| Rhizoctonia solani..... | Solanum tuberosum..... | District of Columbia. |
| MOROCCO. | | |
| Insect: | | |
| Spongovostox sp. (Forficulidae)..... | Statice brassicaefolia..... | District of Columbia. |
| NEW ZEALAND. | | |
| Insects: | | |
| Aspidiotus camelliae (greedy scale)..... | Gaultheria oppositifolia..... | District of Columbia. |
| Do..... | Leptospermum nichollii..... | Do. |
| Cerambycid..... | Alectryon excelsum..... | Do. |
| NICARAGUA. | | |
| Insects: | | |
| Chrysomphalus dictyospermi (scale insect)..... | Cocos nucifera (coconut palm)..... | Florida. |
| Lepidosaphes beckii (purple scale)..... | Citrus grandis (grapefruit)..... | Do. |
| Mylabris obtectus (bean weevil)..... | Beans..... | California. |
| Pseudanidia articulatus (rufous scale)..... | Citrus sinensis (orange)..... | Florida. |
| Pseudococcus sp. (scale insect)..... | Musa sp. (banana)..... | Louisiana.* |
| NIGERIA. | | |
| Insects: | | |
| Calendra oryzae (rice weevil)..... | Holcus vulgare..... | District of Columbia. |
| Oxycaenus hyalinipennis (Lygaeidae)..... | Gossypium sp. (cottonseed)..... | Do. |
| Rhizopertha dominica (Lesser grain borer)..... | Holcus vulgare..... | Do. |
| NORTH AFRICA. | | |
| Insects: | | |
| Phoenicococcus marlatti (scale insect)..... | Phoenix dactylifera (date palm)..... | New York City.* |
| Prenolepis longicornis (ant)..... | do..... | Do. |
| NORWAY. | | |
| Insect: | | |
| Rhagoletis sp. (Trypetidae)..... | Berberis chinensis..... | District of Columbia. |
| NOVA SCOTIA. | | |
| Disease: | | |
| Fusarium sp..... | Solanum tuberosum..... | Virginia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|---|-----------------------|
| ORIENTAL PORT (?). | | |
| Disease: Botrytis parasitica..... | Narcissus sp..... | California. |
| PANAMA. | | |
| Insects: | | |
| Anisolabis annulipes (earwig)..... | Tamarindus indica (tamarind)..... | Louisiana.* |
| Aspidiotus cocotiphagus (scale insect)..... | Cocos nucifera (coconut palm)..... | Do. |
| Aspidiotus destructor (scale insect)..... | do..... | Do. |
| Aspidiotus lataniae (scale insect)..... | do..... | Florida. |
| Calendra linearis (Calendrinae)..... | Tamarindus indica (tamarind)..... | Louisiana.* |
| Chloridea obsoleta (Noctuidae)..... | Gossypium sp. (cotton)..... | Do. |
| Chrysomphalus sp. (scale insect)..... | Cocos nucifera (coconut palm)..... | District of Columbia. |
| Conchaspis angraeci (scale insect)..... | Croton..... | Louisiana.* |
| Conotelus rufipes (Nitidulidae)..... | Bean..... | Do. |
| Diaspis boisduvalii (scale insect)..... | Cocos nucifera (coconut palm)..... | District of Columbia. |
| Heilipus perseae (Curculionidae)..... | Persea gratissima (avocado)..... | Louisiana.* |
| Hemichionaspis minor (scale insect)..... | Cocos nucifera (coconut palm)..... | Do. |
| Hemichionaspis sp. (scale insect)..... | do..... | Florida. |
| Lepidosaphes lasianthi (scale insect)..... | Croton (2)..... | Louisiana.* |
| Mylabris sp. (Mylabridae)..... | Ceiba casearia (silk cotton)..... | District of Columbia. |
| Orthozia praelonga (scale insect)..... | Croton..... | Louisiana.* |
| Orthoperus sp. (Corylophidae)..... | Ochroma lagopus..... | Do. |
| Paratetranychus tumidus (mite)..... | Croton..... | California. |
| Phthorimaea operculella (potato tuber moth)..... | Solanum tuberosum (potato)..... | Louisiana.* |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Ananas sativus (pineapple)..... | Do. |
| Pyralid..... | Gossypium sp. (cotton)..... | District of Columbia. |
| Stigmaeus floridanus (mite)..... | Ananas sativus (pineapple)..... | Do. |
| Targionia sacchari (scale insect)..... | Saccharum officinarum (sugar cane)..... | Florida. |
| Tetramorium guineense (ant)..... | Cocos nucifera (coconut palm)..... | Louisiana.* |
| Tetranychus sp. (mite)..... | do..... | Florida. |
| Xyleborus sacchari (Scolytidae)..... | Quito wood..... | Louisiana.* |
| PARAGUAY. | | |
| Insect: | | |
| Diaspis echinocacti cacti (scale insect)..... | Cereus stenogonus..... | District of Columbia. |
| Do..... | Harrisia sp. (cactus)..... | Do. |
| PERSIA. | | |
| Diseases: | | |
| Tilletia foetens..... | Triticum sativum..... | District of Columbia. |
| Ustilago hordei..... | Hordeum vulgare..... | Do. |
| PERU. | | |
| Insects: | | |
| Catorama sp. (Anobiidae)..... | Gossypium sp. (cotton)..... | California. |
| Do..... | do..... | District of Columbia. |
| Endrosis lacteella (Elachistidae)..... | Gossypium sp. (cotton seed)..... | California. |
| Ephestia elutella (Pyralidae)..... | do..... | Do. |
| Ephestia sp. (Pyralidae)..... | Gossypium sp. (cottonseed cake)..... | Washington.* |
| Laemophloeus pusillus (Cucujidae)..... | Gossypium sp. (cotton seed)..... | California. |
| Do..... | Gossypium sp. (cottonseed cake)..... | Washington.* |
| Mylabris sp. (Mylabridae)..... | Cassia elegans..... | District of Columbia. |
| Phthorimaea operculella (potato tuber moth)..... | Solanum tuberosum (potato)..... | Louisiana.* |
| Tribolium ferrugineum (rust-red flour beetle)..... | Gossypium sp. (cottonseed cake)..... | Washington.* |
| PHILIPPINE ISLANDS. | | |
| Insects: | | |
| Araecerus fasciculatus (coffee-bean weevil)..... | Pandanus tectorius..... | District of Columbia. |
| Aspidiotus lataniae (scale insect)..... | Litchi..... | Maryland.* |
| Calendrid..... | Phalaenopsis amabilis (orchid)..... | District of Columbia. |
| Caryedon gonigra (Mylabridae)..... | Prosopis vialiana..... | Do. |
| Caryoborus gonagra (Mylabridae)..... | do..... | Do. |
| Chrysomphalus aurantii (California red scale)..... | Citrus sp..... | Maryland.* |
| Chrysomphalus sp. (scale insect)..... | Phalaenopsis amabilis (orchid)..... | District of Columbia. |
| Crematogaster sp. (ant)..... | Orchids..... | California. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---|-----------------------|
| PHILIPPINE ISLANDS—continued. | | |
| Insects—Continued. | | |
| Curculionid..... | Eugenia jambolana (seed)..... | District of Columbia. |
| Lepidosaphes beckii (purple scale)..... | Citrus sp..... | Maryland.* |
| Lepidosaphes gloverii (Glover's scale)..... | Citrus sp..... | Do. |
| Lophocateres pusillus (Ostomidae)..... | Zea mays (corn)..... | California. |
| Pachymerus chinensis (Mylabridae)..... | Vigna lutea (seed)..... | District of Columbia. |
| Parlatoria pergandei (chaff scale)..... | Citrus milaray..... | Do. |
| Parlatoria sp. (scale insect)..... | Citrus sp..... | Do. |
| Pinnaspis buxi (scale insect)..... | Pandanus tectorius (seed)..... | Do. |
| Platypeltocoris sp. (Miridae)..... | Phalaenopsis amabilis (orchid)..... | Do. |
| Pseudococcus virgatus (mealy bug)..... | Citrus sp..... | Maryland.* |
| Do..... | Litchi..... | Do. |
| Reticulitermes sp. nov. (termite)..... | Moss around roots of litchi..... | District of Columbia. |
| Rhizoglyphus sp. (mite)..... | Duhat seed..... | Do. |
| Saissetia hemisphaerica (hemispherical scale)..... | Citrus sp..... | Maryland.* |
| Do..... | Phalaenopsis amabilis (orchid)..... | District of Columbia. |
| Sciara sp. (Mycetophilidae)..... | Nipa sp. (nipa palm)..... | Do. |
| Zabrotes sp. (Mylabridae)..... | Barleria prionitis..... | Do. |
| Disease: | | |
| Colletotrichum gloeosporioides..... | Citrus grandis..... | Do. |
| Do..... | Citrus hystrix..... | Do. |
| PORTO RICO. | | |
| Insects: | | |
| Aspidiotus destructor (scale insect)..... | Cocos nucifera (coconut palm)..... | Florida. |
| Do..... | do..... | Louisiana.* |
| Do..... | Palm..... | Florida. |
| Cylas formicarius (sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | Do. |
| Diaspis boisduvalii (scale insect)..... | Orchid..... | Do. |
| Euscepes batatae (West Indian sweet-potato weevil)..... | Ipomoea batatas (sweet potato)..... | Do. |
| Ischnaspis longirostris (scale insect)..... | Cocos nucifera (coconut palm)..... | Louisiana.* |
| Do..... | Palm..... | District of Columbia. |
| Lepidosaphes gloverii (Glover's scale)..... | do..... | Do. |
| Lepidosaphes lasianthi (scale insect)..... | Croton..... | New York City.* |
| Monomorium destructor (ant)..... | Saccharum officinarum (sugar cane)..... | District of Columbia. |
| Pinnaspis buxi (scale insect)..... | Palm..... | Do. |
| Pseudococcus sacchari (mealy bug)..... | Saccharum officinarum (sugar cane)..... | Do. |
| Pseudococcus sp. (mealy bug)..... | Dracaena..... | New York City.* |
| PORTUGAL. | | |
| Insect: | | |
| Calendra oryzae (rice weevil)..... | Phaseolus sp. (beans)..... | Louisiana.* |
| PORTUGUESE EAST AFRICA. | | |
| Insect: | | |
| Tenebrionid..... | "Bangiri"..... | District of Columbia. |
| RHODESIA. | | |
| Insects: | | |
| Calendra oryzae (rice weevil)..... | Holcus sorghum (kafir corn) (2)..... | District of Columbia. |
| Do..... | Panicum maximum..... | Do. |
| Do..... | Zea mays (corn) (2)..... | Do. |
| Drosophila sp. (Drosophilidae)..... | Potato into which had been stuck some Tulley grass..... | Do. |
| Eurytoma sp. (Eurytomidae)..... | Combrytum apiculatum (?)..... | Do. |
| Eurytomid..... | Zizyphus sp..... | Do. |
| Gelechiid..... | Munkonga..... | Do. |
| Do..... | (?) Seed..... | Do. |
| Pollenia rudis (Muscidae)..... | Potato into which had been stuck some Tulley grass..... | Do. |
| Pseudococcus sacchari (mealy bug)..... | Cow cane..... | Do. |
| Do..... | Indian cane..... | Do. |
| Scarabaeid..... | Impingi..... | Do. |
| Tenebrionid..... | Combrytum apiculatum (?)..... | Do. |
| Tribolium confusum (confused flour beetle)..... | Murula salarvearya..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| SALVADOR. | | |
| Insect: Spermophagus sp. (Mylabridae)..... | Pachyrhizus tuberosus..... | District of Columbia. |
| SAMOA. | | |
| Insect: Chelisoches morio (earwig)..... | Ananas sativus (pineapple) (2)..... | District of Columbia. |
| Pseudococcus bromeliae (pineapple mealy bug)..... | Ananas sativus (pineapple)..... | Do. |
| SCOTLAND. | | |
| Insect: Emphytus cinctus (sawfly)..... | Rosa sp. (rose stock)..... | Connecticut. |
| Diseases: Actinomyces scabies..... | Solanum tuberosum (2)..... | District of Columbia. |
| Bacillus sp..... | Solanum tuberosum..... | Do. |
| Fusarium sp..... | Solanum tuberosum (2)..... | Do. |
| Oospora pustulans..... | do..... | Do. |
| Rhizoctonia solani..... | do..... | Do. |
| Spondylocadium atrovirens..... | Solanum tuberosum..... | Do. |
| Spongospora subterranea..... | do..... | Do. |
| Do..... | do..... | Florida. |
| SIAM. | | |
| Insect: Araecerus fasciculatus (coffee-bean weevil)..... | Psophocarpus tetragonalobus (seed).... | District of Columbia. |
| SOUTH AFRICA. | | |
| Insects: Aspidiotus lataniae (scale insect)..... | Hedge plant..... | District of Columbia. |
| Calendra oryzae (rice weevil)..... | Native maize..... | Do. |
| Caryoborus sp. (Mylabridae)..... | Acacia giraffea (?)..... | Do. |
| Chalcis sp. (Chalcididae)..... | Leucospermum sp..... | Do. |
| Chionaspis sp. (scale insect)..... | Grass..... | Do. |
| Curculionid..... | Lilium sp. (lily)..... | Do. |
| Do..... | Unknown tree..... | Do. |
| Mylabrid..... | Kaffir bean..... | Do. |
| Mylabris obtectus (bean weevil)..... | Sugar bean..... | Do. |
| Mylabris sp. (Mylabridae)..... | Acacia sp..... | Do. |
| Do..... | Cassia abbreviata..... | Pennsylvania.* |
| Stephanoderes cooki (Scolytidae)..... | Unknown tree..... | District of Columbia. |
| Tenebroides mauritanicus (Ostomidae)..... | Seeds..... | Do. |
| SOUTH AMERICA. | | |
| Insect: Mylabris obtectus (bean weevil)..... | Bean pods..... | District of Columbia. |
| Disease: Gloeosporium sp..... | Orchidaceae..... | Louisiana.* |
| SPAIN. | | |
| Insects: Calendra granaria (granary weevil)..... | Avena sativa (oats)..... | District of Columbia. |
| Cathartus advena (foreign grain beetle)..... | Juglans regia (walnut)..... | Louisiana.* |
| Chrysomphalus dictyospermi (scale insect)..... | Citrus sinensis (orange)..... | Florida. |
| Drosophila sp. (Drosophilidae)..... | Solanum tuberosum (potato)..... | Pennsylvania.* |
| Harmolita sp..... | Avena sativa (oat)..... | District of Columbia. |
| Laemophloeus pusillus (Cucujidae)..... | Juglans regia (walnut)..... | Louisiana.* |
| Lepidosaphes beekii (purple scale)..... | Citrus grandis (grapefruit)..... | Florida. |
| Do..... | Citrus sinensis (orange)..... | Do. |
| Parlatoria pergandei (chaff scale)..... | do..... | Do. |
| Phthorimaea operculella (potato tuber moth)..... | Solanum tuberosum (potato)..... | Pennsylvania.* |
| Plodia interpunctella (Indian meal moth)..... | Juglans regia (walnut)..... | Louisiana.* |
| Pseudococcus maritimus (mealy bug)..... | Cactus inermis..... | District of Columbia. |
| Pseudococcus sp. (mealy bug)..... | Citrus sinensis (orange)..... | Florida. |
| Silvanus surinamensis (saw-toothed grain beetle)..... | Juglans regia (walnut)..... | Louisiana.* |
| Tribolium confusum (confused flour beetle)..... | do..... | Do. |
| Disease: Ustilago avenae..... | Avena sativa..... | District of Columbia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| SPANISH HONDURAS. | | |
| Insects: | | |
| <i>Allegoria dilatata</i> (Tenebrionidae)..... | <i>Musa</i> sp. (banana)..... | Louisiana.* |
| Do..... | <i>Musa</i> sp. (banana leaves used as packing)..... | Do. |
| <i>Anastrepha</i> sp. (Trypetidae)..... | <i>Mangifera indica</i> (mango)..... | Do. |
| <i>Aspidiotus lataniae</i> (scale insect)..... | <i>Attalea cohune</i> | District of Columbia. |
| <i>Aspidiotus palmarum</i> (scale insect)..... | <i>Mangifera indica</i> (mango)..... | Florida. |
| <i>Aspidiotus</i> sp. (scale insect)..... | <i>Cocos nucifera</i> (coconut palm)..... | Do. |
| Do..... | <i>Mangifera indica</i> (mango)..... | Do. |
| <i>Asterolecanium</i> sp. (scale insect)..... | <i>Attalea cohune</i> (seed)..... | District of Columbia. |
| Do..... | Cahoon or corozal palm..... | Louisiana.* |
| Do..... | <i>Cocos nucifera</i> (coconut palm)..... | Florida. |
| <i>Camponotus abdominalis stercorarius</i> (ant)..... | <i>Musa</i> sp. (banana)..... | Louisiana.* |
| <i>Camponotus</i> sp. (ant)..... | do..... | Do. |
| <i>Capaneus odiosus</i> (Coreidae)..... | do..... | Do. |
| <i>Castolus plagiaticollis</i> (Reduviidae)..... | do..... | Do. |
| <i>Ceroplastes floridensis</i> (scale insect)..... | <i>Mangifera indica</i> (mango)..... | Florida. |
| <i>Chelymormpha comata smithi</i> (Chrysomelidae)..... | <i>Musa</i> sp. (banana)..... | Louisiana.* |
| <i>Chloridea obsoleta</i> (corn earworm)..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Chrysomphalus dictyospermi</i> (scale insect)..... | <i>Citrus grandis</i> (grapefruit)..... | Do. |
| Do..... | <i>Citrus sinensis</i> (orange)..... | Do. |
| Do..... | <i>Mangifera indica</i> (mango)..... | Florida. |
| <i>Chrysomphalus</i> sp. (scale insect)..... | <i>Citrus aurantifolia</i> (lime)..... | Do. |
| <i>Dinocoris tripterus</i> (Pentatomidae)..... | <i>Musa</i> sp. (banana) (2)..... | Louisiana.* |
| <i>Euxesta</i> sp. (Ortaliidae)..... | <i>Zea mays</i> (corn)..... | Do. |
| <i>Lepidosaphes beckii</i> (purple scale)..... | <i>Citrus grandis</i> (grapefruit)..... | Do. |
| Do..... | <i>Citrus sinensis</i> (orange) (2)..... | Do. |
| <i>Metamasius sericeus</i> (Calendrines)..... | <i>Musa</i> sp. (banana)..... | Do. |
| <i>Metamasius sericeus carbonarius</i> (banana root borer)..... | <i>Musa sapientum</i> (banana)..... | Do. |
| Do..... | <i>Musa</i> sp. (banana) (2)..... | Do. |
| <i>Neoponera villosa</i> (ant)..... | <i>Musa</i> sp. (banana)..... | Do. |
| <i>Parlatoria pergandei</i> (chaff scale)..... | <i>Citrus sinensis</i> (orange)..... | Do. |
| <i>Pheidole megacephala</i> (ant)..... | <i>Musa</i> sp. (banana)..... | Do. |
| <i>Piezostethus galactinus</i> (Anthracoridae)..... | do..... | Do. |
| <i>Pseudaonidia articulatus</i> (rufous scale)..... | <i>Cocos nucifera</i> (coconut palm)..... | Florida. |
| <i>Pulvinaria pyriformis</i> (scale insect)..... | <i>Mangifera indica</i> (mango)..... | Do. |
| <i>Pulvinaria</i> sp. (scale insect)..... | <i>Citrus grandis</i> (grapefruit)..... | Louisiana.* |
| <i>Sacium</i> sp. (Corylophidae)..... | <i>Musa</i> sp. (banana leaves used as packing)..... | Do. |
| <i>Saissetia hemisphaerica</i> (hemispherical scale)..... | <i>Croton</i> (cuttings)..... | Do. |
| <i>Stenomoma catenifer</i> (Stenommatidae)..... | <i>Persea gratissima</i> (avocado) (2)..... | Do. |
| <i>Targionia hartii</i> (scale insect)..... | <i>Dioscorea</i> sp. (yam)..... | Florida. |
| <i>Telephanus agilis</i> (Cucujidae)..... | <i>Musa</i> sp. (banana leaves used as packing)..... | Louisiana.* |
| <i>Tetranychus</i> sp. (mite)..... | <i>Cocos nucifera</i> (coconut palm)..... | Florida. |
| Disease: | | |
| <i>Myriangium duriaei</i> | <i>Citrus grandis</i> | Louisiana.* |
| ST. VINCENT ISLAND. | | |
| Insects: | | |
| <i>Balclutha</i> sp. (Jassidae)..... | Grass..... | District of Columbia. |
| <i>Monomorium</i> sp. (ant)..... | Gramineae..... | Do. |
| STRAITS SETTLEMENTS. | | |
| Insects: | | |
| <i>Lepidosaphes</i> sp. (scale insect)..... | <i>Araca alba</i> | District of Columbia. |
| <i>Pseudoblaps</i> sp. (Tenebrionidae)..... | (?) Seed..... | Do. |
| <i>Pseudococcus bromeliae</i> (mealy bug)..... | <i>Ananas sativus</i> (pineapple)..... | Do. |
| <i>Stigmaeodes cinctus</i> (mite)..... | do..... | Do. |
| <i>Targionia bromeliae</i> (scale insect)..... | <i>Ananas sativus</i> (pineapple) (2)..... | Do. |
| <i>Trypsetus incarnatus</i> (Calendrines)..... | (?)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|--|---|-----------------------|
| SUDAN. | | |
| Insects: | | |
| Agromyzid..... | Vigna sp. (seed)..... | District of Columbia. |
| Apion sp. (Curculionidae)..... | Legume (seed)..... | Do. |
| Do..... | (?) Similar to Hibiscus sp..... | Do. |
| Calendra oryzae (rice weevil)..... | Holcus sorghum (kafir corn) (seed) (3)..... | Do. |
| Do..... | Zea mays (corn)..... | Do. |
| Iridomyrmex sp. (ant)..... | Holcus sp..... | Do. |
| Mylabrid..... | Cicer sp. (chickpea)..... | Do. |
| Do..... | Garat or Garad..... | Do. |
| Pheidole sp. (ant)..... | Holcus sp. (2)..... | Do. |
| Rhizopertha dominica (Bostrychidae)..... | Holcus sorghum..... | Do. |
| TAHITI. | | |
| Insects: | | |
| Anisolabis annulipes (earwig)..... | Dioscorea sp..... | California. |
| Carpophilus maculatus (Nitidulidae)..... | do..... | Do. |
| Ereunetis sp. (Tineidae)..... | Ricinus communis (castor beans)..... | Do. |
| Disease: | | |
| Thielaviopsis paradoxa..... | Saccharum officinarum..... | Do. |
| TONGATABU ISLAND. | | |
| Insect: | | |
| Anisolabis annulipes (earwig)..... | Dioscorea sp. (yams)..... | Do. |
| TRINIDAD. | | |
| Insects: | | |
| Aspidiotus lataniae (scale insect)..... | Palms..... | District of Columbia. |
| Carpophilus hemipterus (Nitidulidae)..... | Colocasia sp..... | Do. |
| Carthartus advena (foreign grain beetle)..... | do..... | Do. |
| Cecidomyia sp. (Cecidomyiidae)..... | Palm nuts..... | Do. |
| Chrysomphalus agavis (scale insect)..... | Agave americana (century plant)..... | Do. |
| Chrysomphalus aonidum (Florida red scale)..... | Musa sp..... | Do. |
| Gryllid..... | Cactus..... | Do. |
| Lepidosaphes beckii (purple scale)..... | Citrus sinensis (orange)..... | Do. |
| Olethreutid..... | Palm nut..... | Do. |
| Pseudaonidia articulatus (scale insect)..... | Heavea braziliensis (rubber tree)..... | Do. |
| Diseases: | | |
| Colletotrichum gloeosporioides..... | Citrus sp. (2)..... | Do. |
| Monilia sp..... | do..... | Do. |
| UGANDA. | | |
| Insects: | | |
| Apion sp. (Curculionidae)..... | Vigna sp..... | District of Columbia. |
| Calendra oryzae (rice weevil)..... | Holcus sorghum (2)..... | Do. |
| Cecidomyid..... | Holcus sp. (seed) (4)..... | Do. |
| Crocidosena plebeiana (Olethreutidae)..... | Hibiscus-like flowers..... | Do. |
| Monomorium sp. (ant)..... | Vigna sp. (seed)..... | Do. |
| Mylabris obtectus (bean weevil)..... | Mixed beans (2)..... | Do. |
| Pheidole sp. (ant)..... | Holcus sp. (3)..... | Do. |
| UNION OF SOUTH AFRICA. | | |
| Insects: | | |
| Apion sp. (Curculionidae)..... | Tisiphus sp..... | District of Columbia. |
| Aspidiotus hederæ (ivy scale)..... | Solanum giganteum..... | Do. |
| Aspidiotus transparens (scale insect)..... | Cycas sp..... | Do. |
| Calendra oryzae (rice weevil)..... | Triticum vulgare..... | Do. |
| Cerambycid..... | Acacia robusta..... | Do. |
| Chionaspis exalbida (scale insect)..... | Aloe sp..... | Do. |
| Do..... | Pandanus sp..... | Do. |
| Chionaspis sp. (scale insect)..... | Lecuridæa longepedunculata..... | Do. |
| Curculionid..... | Brachystegia sp. (seed)..... | Do. |
| Do..... | Triticum vulgare..... | Do. |
| Ephestia sp. (Pyralidae)..... | Balanites algyptiaea (2)..... | Do. |
| Do..... | "Mahobohobo" (seed)..... | Do. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|--|-----------------------|
| UNION OF SOUTH AFRICA—continued. | | |
| Insects—Continued. | | |
| Ephestia sp. (Pyralidae)..... | Mimuspops (seed)..... | District of Columbia. |
| Do..... | Strychnos (seed)..... | Do. |
| Eurytoma sp. (Eurytomidae)..... | Combretum salicifolium..... | Do. |
| Eurytomid..... | Acacia glandulifera..... | Do. |
| Do..... | Terminalis sp..... | Do. |
| Mylabris phaseoli (Mylabridae)..... | Dichrostachys nutans..... | Do. |
| Mylabris quadrimaculatus (four-spotted bean weevil) | Beans..... | Do. |
| Mylabris sp. (Mylabridae)..... | Acacia arabica..... | Do. |
| Do..... | Acacia dentinens (?)..... | Do. |
| Do..... | Acacia giraffae (2)..... | Do. |
| Do..... | Acacia glandulifera (2)..... | Do. |
| Do..... | Acacia litakunensis..... | Do. |
| Do..... | Acacia robusta..... | Do. |
| Do..... | Acacia sp..... | Do. |
| Do..... | Combretum salicifolium..... | Do. |
| Do..... | Dichrostachys nutans (3)..... | Do. |
| Pulvinaria sp. (scale insect)..... | Grass..... | Do. |
| Selenaspidus pumilis (scale insect)..... | (?)..... | Do. |
| Sitodrepa panicea (Anobiidae)..... | Triticum vulgare..... | Do. |
| Stenotus nigroquadristriatus (Miridae)..... | Panicum laevifolium pictum..... | Do. |
| Tenebrionid..... | "Macceta"..... | Do. |
| Tephritis sp. (Trypetidae)..... | Bidens pilosa..... | Do. |
| Tyroglyphus sp. (mite)..... | Solanum sodomium..... | Do. |
| Diseases: | | |
| Ascochyta sp..... | Phaseolus vulgaris..... | Do. |
| Cladosporium herbarum..... | Securidaca longepedunculata var. parviflora..... | Do. |
| Colletotrichum lindemuthianum..... | Phaseolus vulgaris..... | Do. |
| Pestalozzia guepini..... | Mimuspops sp..... | Do. |
| Do..... | Moosooku (Kiloko)..... | Do. |
| Spermoedia microcephala..... | Digitaria eriantha..... | Do. |
| Do..... | Themeda forskalii..... | Do. |
| URUGUAY. | | |
| Insects: | | |
| Pyralid..... | Blepharocalyx lanceolata..... | District of Columbia. |
| Sitodrepa panicea (Anobiidae)..... | Carica quercifolia..... | Do. |
| VENEZUELA. | | |
| Insects: | | |
| Araecerus fasciculatus (coffee-bean weevil)..... | Ceratonía siliqua (algaroba beans)..... | District of Columbia. |
| Baryssinus leguminicola (Cerambycidae)..... | do..... | Do. |
| Cathartus cassiae (Cucujidae)..... | Hymenaea courbaril..... | Do. |
| Cerambycid..... | do..... | Do. |
| Do..... | Ipomoea batatas (sweet potato)..... | Florida. |
| Euscepes porcellus (Curculionidae)..... | do..... | Do. |
| Monomorium pharaonis (ant)..... | Hymenaea courbaril..... | District of Columbia. |
| Mylabris sp. (Mylabridae)..... | Ceratonía siliqua (algaroba beans)..... | Do. |
| Do..... | Hymenaea courbaril..... | Do. |
| Do..... | Prosopis chilensis..... | Do. |
| Ptericoptus panamensis (Cerambycidae)..... | Ipomoea batatas (sweet potato)..... | Florida. |
| Rhizoglyphus phylloxerae (mite)..... | Hymenaea courbaril..... | District of Columbia. |
| Silvanus sp. (Cucujidae)..... | do..... | Do. |
| Smicrips sp. (Nitidulidae)..... | do..... | Do. |
| Tortricid..... | do..... | Do. |
| VIRGIN ISLANDS. | | |
| Insect: | | |
| Tyroglyphus heteromorphus (mite)..... | Saccharum officinarum (sugar cane)..... | District of Columbia. |

List, by countries, of pests collected and reported from October 1, 1919, to December 31, 1920, inclusive—Continued.

| Country of origin and name of pest. | Host. | Collected in— |
|---|---------------------------------|-----------------------|
| WEST INDIES. | | |
| Insects: | | |
| Anisolabis annulipes (Forficulidae)..... | Ananas sativus (pineapple)..... | District of Columbia. |
| Diaspis bromeliae (scale insect)..... | do..... | Do. |
| Pseudococcus bromeliae (pineapple mealy bug)..... | do..... | Do. |
| Rhizoglyphus phylloxerae (mite)..... | do..... | Do. |
| Disease: | | |
| Diplodia tubericola..... | Ipomoea batatas..... | Do. |